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-7 FEB 1969

# C & D

## CHEMIST AND DRUGGIST

FEBRUARY 8 1969

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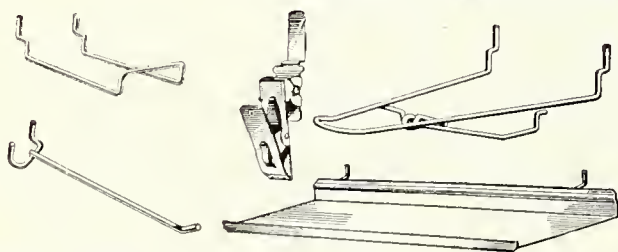
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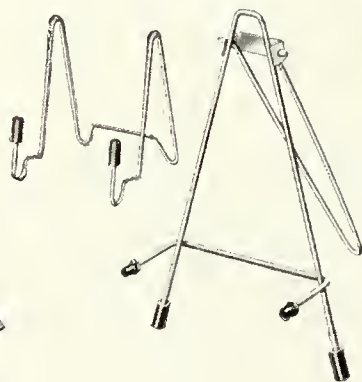
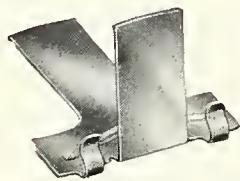
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**C&D**  
**CHEMIST AND DRUGGIST**

### 'Drug Interactions Tabulated'

C. & D. January 18, 1969

Reprints of this 4-page article are available at a charge of 1/4 each including postage, from:-

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**ACE**  
 —the new  
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 which bends over  
 backwards to  
 make you smile...  
 all the way  
 to the bank!



#### The ACE range

The exciting ACE range (six brilliant colours to make a big splash on your counter) comes 'blister-packed' on card. Each toothbrush has its own, free, adhesive holder in the same colour as the brush itself. This range will be backed by—

#### National Advertising

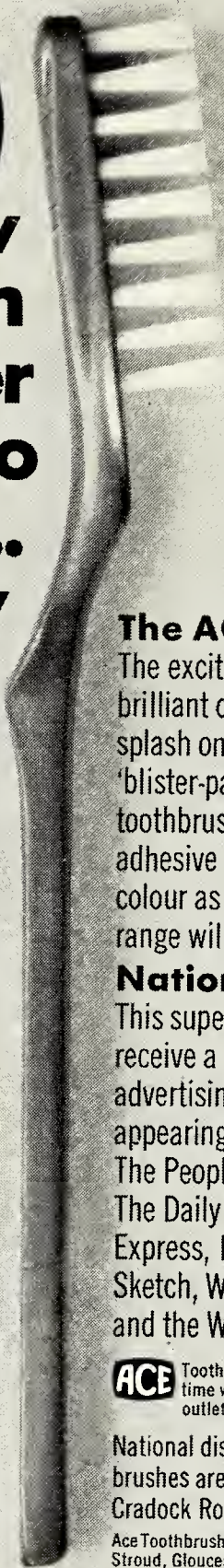
This superb toothbrush will receive a heavy National Press advertising launch campaign appearing frequently in Woman, The People, The Sunday Mirror, The Daily Mirror, The Sunday Express, Reveille, The Daily Sketch, Weekend, Sunday Post, and the Weekly News.



Toothbrushes solemnly promise that at no time will this product be sold through any outlet except chemists.

National distributors for Ace toothbrushes are Devon Hair Aids Ltd., Cradock Road, Luton, Beds.

Ace Toothbrushes (A division of Critchley Bros. Limited, Stroud, Gloucestershire).



**Brush up your profits - move forward with ACE in 1969**



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are coming  
back!**







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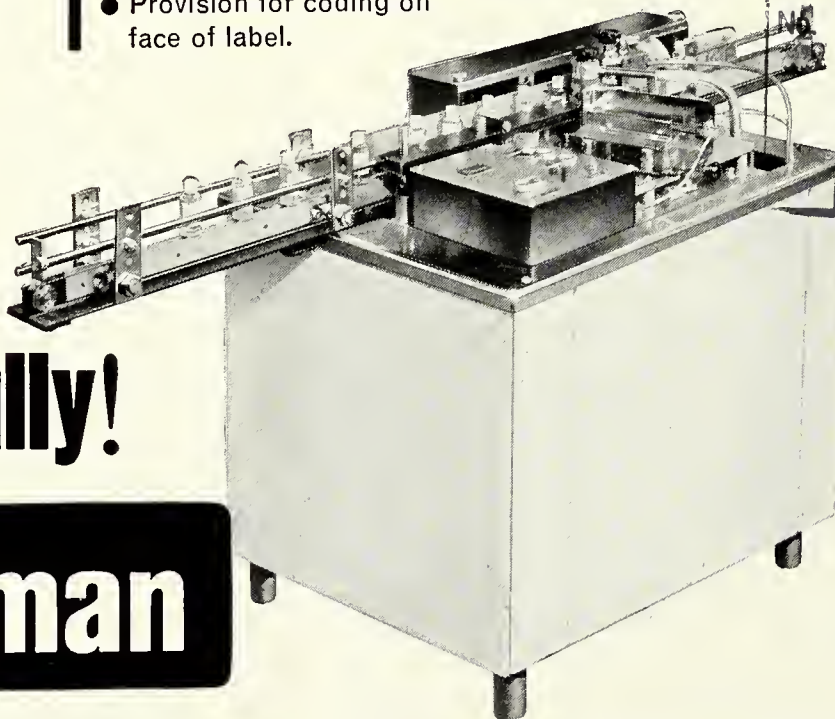
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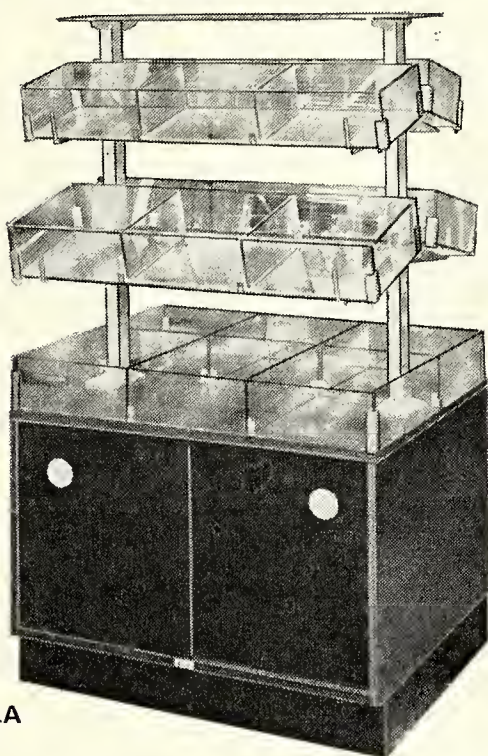
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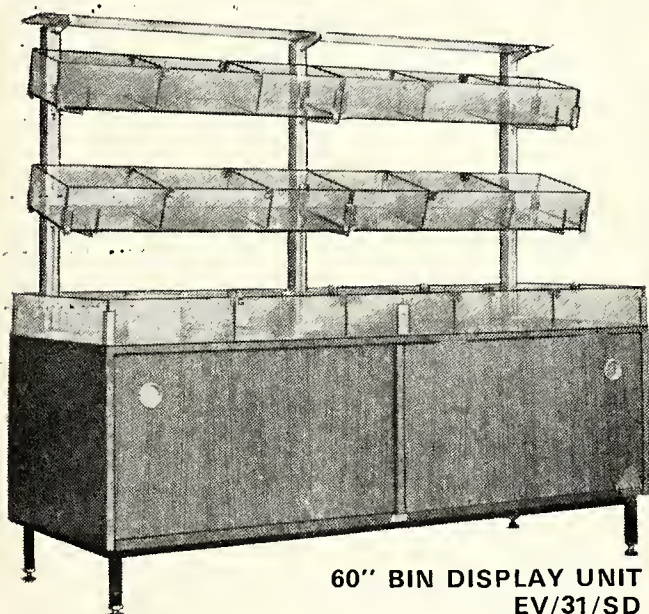
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# C & D

## CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY  
and all sections of the drug, pharmaceutical,  
fine chemical, cosmetics, and allied industries  
*Official organ of the Pharmaceutical Society of Ireland  
and of the Pharmaceutical Society of Northern Ireland*

Volume 191

February 8, 1969

No. 4643

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### ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Year Book and  
Buyers Guide, £5. Single copy 2s. 6d. (including postage).  
Three years' subscription £10.



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# A little cold logic from Dulsils.

We're doing all we can to help you push up your profits on Dulsils this winter with our new advertising message. This explains to cold sufferers how Dulsils can alleviate many of the more unpleasant features of a cold. And it is going to bring in many new buyers for Dulsils. You'll make extra sales to everyone suffering from those particularly unpleasant concomitants of a cold . . . and some time or other during the winter, that's just about everyone.

## The Dulsils formula

does two jobs to soothe sore throats. Its two powerful bactericides, dichlorobenzyl alcohol and amyl-meta-cresol, kill all common sore throat germs within 60 seconds.

The inclusion of dextromethorphan hydrobromide means that Dulsils also control the cough that can often further irritate an already inflamed throat.

You can recommend Dulsils with confidence for all sore throats, including those symptomatic of the common cold.

## National advertising

We're beaming our new message straight at an enormous audience throughout the coughs, colds and sore throats season: we're taking large spaces in Sunday Express, TV Times right through to April to tell the Dulsils story.

Back up our advertising support with show-cards on your counter to remind cold sufferers that Dulsils soothe all sore throats.

And make sure you're able to meet the demand.



**Sole Agent: W. B. Cartwright, Rawdon, Leeds. LS19 7YA. Tel: 0973-7 2143**

0-14





# C&D

## CHEMIST AND DRUGGIST

Volume 191

FEBRUARY 8, 1969

No. 4643

## Candidates for Council

### LONDON VOTERS' CHANCE TO "VET" THEM

MEMBERS of the Pharmaceutical Society resident near London will have an opportunity in May to hear and cross-examine candidates for election to the Society's Council.

The Greater London Pharmaceutical Association has arranged a meeting at the Society's headquarters, 17 Bloomsbury Square, W.C.1, at 8 p.m. on May 7, at which all candidates are being invited to put forward their aims and policies, and to answer questions. The meeting is similar to those formerly held under the auspices of the London County Pharmaceutical Association (now revived as the G.L.P.A.). Since those functions ceased, most voters have had to base their decisions entirely on the published policies, and the Association considers that direct contact with the candidates will help them to make up their minds. As voting papers do not have to be returned until May 23 the timing of the meeting leaves plenty of opportunity to vote after attending. Before the meeting starts there will be refreshments.

## Drugs and Sleep

### EXPERIMENTS BEGIN ON BABOONS

RESEARCH into the effects of drugs on sleep is, for the first time in Britain, being carried out on baboons. Experimental animals are housed at the Arthur D. Little Research Institute laboratories, Elphinstone, where there is one of the largest baboon colonies in the country. A three-year grant of £8,500 has been given by the Scottish Hospital Endowments Research Trust for the project to Dr. I. Oswald (psychiatry department, Edinburgh University). In collaboration with Dr. R. E. Lister (head of the Institute's biological sciences division) he will make studies of drug action on the brain of an animal during sleep, the chemistry of sleep, and behavioural changes in wakefulness. All common drugs of dependence reduce the proportion of human sleep spent in the paradoxical (or REM) phase, which is a distinct physiological condition as opposed to wakefulness and to orthodox (or slow-wave) sleep and has its own bodily and psychological characteristics, especially dreaming. Withdrawal of the drugs leads to a rebound increase which, in extreme cases, can reach 100 per cent, and has been shown to result in nightmares or delirium tremens asso-

ciated with more or less continuous paradoxical sleep, if sleep occurs at all. It is possible that the underlying physiology of delirium represents a form of "breaking through" of some features of paradoxical sleep into wakefulness.

## "Proplis" Categories

### THREAT TO PRESCRIBING FREEDOM

DISSATISFACTION with some of the *Proplis* classifications that are being given to proprietary medicines by the Standing Joint Committee was expressed at a meeting of the British Medical Association's general medical services committee on January 16. According to *The British Medical Journal supplement* (February 1), the committee was considering a letter from Walsall Local Medical Committee seeking to have

deleted a *Proplis* introductory paragraph indicating that doctors may be required to justify their prescribing of B-category preparations if their prescribing is being formally investigated. The G.M.S. committee reaffirmed its belief in the preservation of absolute clinical freedom, welcomed authoritative advice on prescribing, but insisted that the Government should give an assurance that such advice would never be used in any prescribing investigation arising from National Health regulations.

## Starpacks 1969

### CONTEST MOVES TO HARROGATE

THE Institute of Packaging's Starpacks contest has a new venue in 1969 — the exhibition and conference centre, Harrogate. Closing date for entries is May 16 and packages are to be delivered to the Institute's agents on June 12 and 13. Judging is on June 18 and 19. Consumer packs will be scrutinised for protection and preservation; ease of handling (filling, closing, stacking, opening and re-closing); adequacy of information; sales appeal; and quality



ASSIGNMENT HEBRIDES: Seen acknowledging, at a dinner in London, his award as winner of the Agfacolor "Dream Assignment," trophy, presented on behalf of Agfa-Gevaert, Ltd., Great West Road, Brentford, Middlesex, by the company's managing director (Mr. J. Bracey-Gibson), is Mr. Eric Johnson, Hull. Entitled to travel anywhere in the world to take the pictures of his choice, Mr. Hall is to follow in the wake of Dr. Samuel Johnson, whose famous journey to the Hebrides was immortalised by his biographer Boswell.



of production. The judges may also award bonus marks for ingenuity of construction and use of materials. For transit packages, addressing and consignment markings replace "adequacy of information" and "sales appeal". Brochures and entry forms may be obtained from Mr. B. Goodman, Information Officer, Institute of Packaging, Malcolm House, Empire Way, Wembley, Middlesex. The following judges have been named:— *Consumer panel*: D. A. Dean (Fisons Pharmaceuticals, Ltd.); Mrs. R. Mills (consultant economist); D. T. M. Smalley; P. J. Turner. *Transit panel*: D. N. Haslam (I.C.I., Ltd., Dyestuffs Division); J. S. McGill; E. G. O. Ridgwell; D. J. Wright. *Student's competition panel*: D. R. Crabtree; A. Helliwell; D. A. Hughes (Boots Pure Drug Co., Ltd.); D. J. Flatman.

## Maternity Care

### EFFECTS ON PERINATAL MORTALITY

A THIRD detailed survey of maternity care, the results of which could help to save some of the 20,000 babies that die during the perinatal period, is being undertaken jointly by the National Birthday Trust and the Royal College of Obstetricians and Gynaecologists. Previous surveys were carried out in 1946 and 1958, and the present study will be in 1970, when all births occurring in one week (about 17,000) will be recorded for a computer study. Follow-up of a selected group of the children for ten years is also planned. Information will be gathered on obstetrical care and the effect of socio-economic factors.

Among the special studies will be an investigation into the use of pain-relieving drugs in labour. An appeal for £120,000 is being made to pay for the survey and details may be obtained from the Trust at 57 Lower Belgrave Street, London, S.W.1. A second report on the 1958 survey has just been published in book form.

## Institute of Directors

### RULES AMENDED FOR ADMISSION

A CHANGE in the rules governing admission to the Institute of Directors now allows for associate membership to be made available to (a) senior executives carrying managerial responsibilities equivalent to those of an executive director; and (b) partners and sole proprietors in professional practice and proprietors of well-established and sizeable unincorporated businesses. Inquiries to: Director-General, Institute of Directors, 10 Belgrave Square, London, S.W.1.

## Hypodermic Syringes

### BAN MAIL-ORDER SALES, SAYS M.P.

THE Government's attention was drawn by Mr. James Dickens, (M.P. for West Lewisham) on February 4 to the offering for sale by mail-order of ex-Government hypodermic syringes. He was to question Mr. Richard Crossman, (Secretary, Health and Social Services), in the Commons on February 6 about an advertisement in a recent issue of the *Exchange and Mart* offering the syringes for 6s. 6d. each, post free. Mr. Dickens said, "I want this practice

stopped at once. Although there are no restrictions on the sale of hypodermic syringes by chemists, they exercise a sensible discretion. Obviously this cannot be done by people who advertise their sale by mail-order."

## Chemists' Retail Sales

### BOARD OF TRADE STATISTICS

THE index of retail sales by chemists and photographic goods dealers in December 1968 was 170 (average monthly sales in 1966=100), an increase of 5 per cent. over the same period a year earlier. Figures recently issued by the Board of Trade also reveal the following indices for the month:—

Independent retailers	138	(+2 per cent.)
Multiple retailers	210	(+8 per cent.)
Co-operative societies	155	(+2 per cent.)

The figures do not allow for receipts under the National Health Service.

## IRISH BREVITIES

### THE NORTH

PRESCRIPTIONS dispensed in Northern Ireland during November 1968 numbered 847,132 (554,031 forms). Total cost was £578,121, an average of 163.79d. per prescription.

THIS year the annual conference of the Ulster Chemists' Association is being held in the spring instead of the customary October. The conference takes place at the Imperial hotel, Enniskillen, co. Fermanagh, May 2-4.

THE annual dinner and dance of Ballymena Branch of the Ulster Chemists' Association takes place at Leighinmohr House hotel, Ballymena, at 7.30 p.m. on February 25. Tickets (price £2 each) are available from Mr. B. A. Murray, 23 Bridge Street, Ballymena.

## NEWS IN BRIEF

THE World Health Organisation has issued a catalogue of its publications 1947-67.

THE February issue of *World Health*, the magazine of the World Health Organisation, features articles on drugs affecting driving ability.

MINISTERS from the eight European Free Trade Association (EFTA) nations will meet in Geneva on May 8-9. At the last meeting in Vienna in November 1968 the Ministers agreed to co-ordinate their countries' responses to any Common Market proposals for European co-operation.

THE National Insurance Advisory Committee has been asked to consider draft regulations designed to extend from six months to twelve months the maximum period that can be prescribed for giving notice of retirement for national insurance purposes, where good cause has been shown for giving notice more than one month after retirement.

THE Council of Industrial Design has appointed Mr. Christopher Cross Brown as business manager of the Design Centre in London. Mr. Cross Brown, a graduate of Oxford university, began his business career in 1946 with A. C. Nielsen Co., Ltd., Oxford, and was for a period marketing director of Chesebrough-Ponds, Ltd.

## STRIP-PACKED MEDICINES

### A doctor believes they help prevent accidents

THE use of strip packing for medicines should be looked at closely by the pharmaceutical industry and extended wherever possible in the interests of safety. So said Dr. R. H. L. COHEN (deputy chief medical officer, Department of Health and Social Security), at a joint meeting of the Royal Society of Medicine's library (scientific research) section and Association of the British Pharmaceutical Industry in London on January 31. Products in strip packs were, he declared, capable of being more easily identified, while the packing provided an extra barrier against accidental overdose. He believed that that form of packing could also be more easily adapted to patients' requirements for any set period (weekly or otherwise), enabling the doctor to prescribe a number of tablets more in keeping with the quantity required for a course of treatment. That, he said, had the added advantage of minimising overprescribing. Dr. Cohen's paper was one of four on "Medicine in the Community."

Another speaker, PROFESSOR D. WALKER (Department of Economics, Exeter), taking as his subject "Prices, Profits and Research," said that the pharmaceutical industry was often criticised for the amount it spent on propagating its goods. But, he said, its growth rate (9 per cent. per year) was among the fastest in Britain, compar-

ing with 3½ per cent. for manufacturing industry as a whole, and that growth was unlikely to take place unless there was a substantial prospect of capital expansion. The industry was a successful exporter, 25 per cent. of its output being destined for overseas.

PROFESSOR J. D. COOPER (department of government, Howard University, Washington, U.S.A.), believed the British Committee on the Safety of Drugs functioned in a way that was better for the public than the long, drawn-out procedures adopted by the Food and Drug Administration in the United States. That Administration's over-cautious attitude meant that other countries often had the benefit of new drugs long before they were available in the United States.

In the general discussion PROFESSOR E. ZAIMIS (department of pharmacology, Royal Free Hospital, London), appealed for co-operation between research workers in industry and in the universities. MR. H. W. PALMER (a past president of the A.B.P.I.) spoke of the importance of patents to the industry—a point taken up by Mr. J. C. DUCKWORTH (managing director, National Research Development Corporation), during the general discussion. Mr. Duckworth reminded his audience that the Sainsbury Committee had not known what to do with the question of patents in pharmaceuticals, and had dumped it on the Banks Committee.



THE Chemical Society's medal, a senior award given once every two years, is being awarded for 1969 to Professor Frank Morton, University of Manchester Institute of Science and Technology. Professor Morton will receive his medal during the annual meeting of the Society in Canada in September.

THE Secretary of State for Social Services (Mr. Richard Crossman) has acknowledged receipt of the Pharmaceutical Society's comments on the Green Paper on the administrative structure of the Health Service in England and Wales (see *C. & D.*, February 1, p. 95). The comments were submitted jointly by the Society's Council, the Central N.H.S. (Chemist Contractors) Committee and the Executive Committee of the National Pharmaceutical Union.

THE Freight Transport Association, formed on January 1, following a merger of the Traders Road Transport Association, National Traders Traffic Association and Traders Co-ordinating Committee on Transport, has become a member of the British Road Federation. The F.T.A. will continue to deal separately with issues affecting the operation of "own-account" transport and the use of hired transport but the link with B.R.F. will help the co-ordination of views on matters jointly concerning the two organisations.

THE Decimal Currency Board's latest booklet "Points for Businessmen" (H.M.S.O., one shilling) was published on February 3. The booklet which was reviewed some time ago (*C. & D.*, December 21/28, 1968, p. 579), deals with some twenty subjects central to the changeover to decimal currency. Publication had to be delayed because of an error in the banking and accounting conversion table. In addition to that amendment several other changes have been made to bring the booklet up to date.

MRS. BARBARA CASTLE (First Secretary and Secretary of State for Employment and Productivity) has published the statutory draft of the revised Ionising Radiations (Sealed Sources) Regulations. Complementary to the recently-made Ionising Radiations (Unsealed Radioactive Substances) Regulations 1968, they include several new provisions relating to the use of x-ray crystallography and spectrometry equipment, measuring and detecting devices, and static eliminators. Objections to the statutory draft must be received by The Under Secretary of State, Department of Employment and Productivity, 1 Chepstow Place, London, W.2, by February 28.

## SPORT

### RUGBY AND HOCKEY

BRITISH PHARMACEUTICAL STUDENTS' ASSOCIATION. Competition for the Unichem Cup (seven-a-side rugby) and the Allenburys Cup (ladies' six-a-side hockey) were played at Sunderland on January 18. Teams from six schools of pharmacy took part. The Unichem Cup was won by the "the Square" (London) who beat Sunderland A by 21 points to 3 in the final. Aston took the Allenbury's Cup with a 1 goal to nil win over Leicester. Prizes were presented by Mr. K. M. Robson (Allen & Hanburys, Ltd.).

# TOPICAL REFLECTIONS

By Xrayser

## *Odds and Ends*

Most pharmacies, unless they have been completely torn to pieces and made modern, aseptic and anonymous, have some odd corner with a drawer that time has passed by. The drawer has been made the repository of as motley a collection of items no longer in use as anyone could possibly imagine. It might almost be said that the occasion for its being opened is governed by the need to find a home for an article that is found to be no longer appropriately housed. And here I may say that there are pharmacists of opposite schools of thought. There is an unsentimental character of great strength of will who unhesitatingly classifies such material as rubbish—and acts accordingly. He would, without even a cursory glance, empty the contents of the drawer into the dustbin, and probably did so years ago, along with his shop rounds and the mahogany fittings. I don't blame him for that. I even find myself, however reluctantly, admiring his decisiveness. From the foregoing you will have deduced, if you did not already know it, that there would be no difficulty in classifying me, and you would, with little searching, find the drawer of which I speak. Its contents comprise a stick of sealing wax, discarded in a moment of weakness when sticky tape made its appearance; a cachet machine, once in daily use; a pill "machine"—a misnomer if ever there were one; a plastic iron; a tin containing a machine-spread soap plaster, and one or two ferocious-looking implements bearing witness to the fact that one of my predecessors undertook the painless removal of teeth. A recent visit to the miniature museum, for that is what it has now become, disclosed a little book, copies of which at one time must have been in every pharmacy in the land. It emanated, no longer ago than 1930, from 61 Charlotte Street, London, W.1, and it is entitled "Rouse's Special Lines for Retail Chemists". How we have progressed since then. We are now general practitioners in pharmacy!

## *Varied Pennyworths*

The business of Rouse Bros., an introductory note proudly states, was founded in Wigmore Street in 1815. The special lines offered were remarkable for their range and price, both of which would astonish the graduate of today. Drugs were packed in boxes, ready-labelled. Bicarbonate of soda, for example, could be purchased in packets by the gross for the price of 8s. They were to sell at one penny each, and it will be seen that one hundred and forty-four such sales left one with a profit of a few shillings. Tins of boric ointment (small oval) cost only 5s. per gross, and they also sold at one penny each. Much the same pattern covered such diverse articles as Epsom salts (Howards' only); sulphur, fuller's earth, jalap (30 grains in an envelope at a price of 6s. gross, to sell at one penny each), and a large assortment of ointments, all current at that time and seldom seen today. Pills were offered (in boxes containing four) to sell at the popular price of one penny—compound rhubarb, mild mercurial, podophyllin, quinine (gr. 1 of sulphate), calomel, and such mysteries as "digestive, wind;" "liver and stomach;" "little liver" and "strong aspirant."

## *Supplying a Need*

I should not like it to be thought that I am scoffing at the fare offered. That, in fact, is what pharmacy was like as recently as 1930, and the firm in question was supplying a need. What is remarkable is that the pharmacist of that day was able to live at all, for the total profit from thousands of sales was ludicrously small. But so, also, was the income of those who had to purchase the items mentioned and who doctored themselves because they could not afford the doctor's fee, or the cost of prescribed medicine. They turned to the pharmacist for help but he, well knowing their circumstances, would advise a palliative (remedies were few) at a price within their means. The result was that, selling a penn'orth of this and a ha'p'orth of that, the pharmacist, in order to secure his pittance, worked a round of the clock.



## SETBACK ON RURAL DISPENSING

### Central N.H.S. Committee asked to present its case again

HOW important it was to give adequate time to Pharmaceutical Committees to consider new proposals on the name-labelling of dispensed medicines was stressed during a lengthy discussion at the January meeting of the Central N.H.S. (Chemist Contractors) Committee, Mr. G. T. M. David in the chair. The proposals had been submitted to the Committee by the Pharmaceutical Society following a meeting between representatives of the two bodies during December 1968. Main proposal was that all EC10 forms would have the letters "N.P." printed on them in an agreed position and that, unless those letters were deleted by the prescriber, the name of the preparation prescribed would be included on the dispensing label. Prescribers wishing to opt out of the arrangement would be required to give written instructions to pharmacists likely to receive their prescriptions for dispensing. It was agreed to send out the Society's proposals to Pharmaceutical Committees for comment and to allow them two months to reply.

#### Dispensing in Rural Areas

Promise by Mr. David Ennals of an early decision on the proposed amendment to Regulation 27, after a complete re-examination of the respective cases of the pharmacists and doctors, was the main outcome of a meeting between representatives of the Committee and Pharmaceutical Society's Council with the Department of Health and Social Security on January 27. Members had expressed disappointment that the Minister had asked both sides for a fresh presentation of their arguments, particularly since the evidence in support of the pharmacists' case had been accepted by his predecessor (Mr. Kenneth Robinson) and by senior officers of the Department for at least three years. The Minister did, however, express his understanding of the Committee's "anger and frustration" at the continued delay in reaching a settlement.

#### Prescription-charge Exemptions

A reply from the British Medical Association to the representations made about adopting distinctive forms for patients exempt from prescription charges indicated that the Association's General Medical Services Committee would not agree to any alterations in the scheme "because of the extremely heavy work load falling on general practitioners at the present time." There was no possibility of their agreeing to any alterations "which would result in a further burden being placed on family doctors."

Results of the inquiry in 1968 into actual costs of containers used by chemist contractors for dispensing N.H.S. prescriptions indicated that the present allowance was meeting the cost of containers currently used. It was agreed to submit a new claim to include payment for the use of glass or plastic tablet containers in place of cartons where those were still used. The claim

would also seek adequate payment for the increased numbers of 5-mil plastic spoons that would be used against prescriptions from March 3 onwards, and would take account of the fact that Imperial medicine bottles returned by patients after that date would need to be replaced.

It was agreed to arrange for discussions with the Department of Health on doctors' requests for dressings to be included in the list of items that might be prescribed in bulk. It was also agreed to make representations to the Department for adjustments to the method of paying for non-proprietary eye drops.

The Committee considered a communication from the Department of Health promising a correcting letter to an Executive Council explaining that the Department had not intended to suggest that the container allowance provided for the supply of glass or plastic containers for all prescriptions. It was agreed to submit a revised claim, along lines recommended by the Oxygen subcommittee for increased remuneration for operating the oxygen service.

A letter from Mr. Richard Crossman (Secretary of State for Social Services) thanked the Committee for its views on the Green Paper on the Health Service.

## PHARMACY TECHNICIANS' CERTIFICATE

### Training Board is developing a correspondence course

A CORRESPONDENCE course leading to the new dispensing technician's certificate of the City and Guilds of London Institute is being developed. That is confirmed in a Press statement issued after a meeting of the Pharmacy Assistants Training Board on January 27 at which Mr. H. B. Coulson (chairman) announced that copies of the syllabus for the course were now available (the syllabus was given in full in the CHEMIST AND DRUGGIST, January 25, p. 85).

The meeting expressed satisfaction at the satisfactory conclusion of some years of work in producing the syllabus. The Board felt that a very real step forward had been made. The syllabus presented a starting point and it was now necessary to build on the foundation it provided and to be sure that the best advantage was taken of it by pharmacists. There must be liaison between local pharmacists and their colleges of further education.

It was recognised that courses for the new syllabus would only be practicable in the larger centres or at colleges at the centre of good public transport communications with a wide catchment area. Local branches of the Pharmaceutical Society and the National Pharmaceutical Union, it was suggested, should establish active contact with their local college in such areas. The secretary of the Pharmacy Assistants Training Board (Mr. E. J. Downing) would be prepared to advise and assist any branch or college requiring information.

It was agreed to inform the Pharmaceutical Society, which had written about the provision of courses of instruction for those engaged in the National Health Service, that the Committee also felt that every effort should be made to establish the fact as well as the principle of treating chemist contractors as a "specified class" for whom the Minister could provide courses of instruction of the refresher type.

#### Proposed "Disturbance Fee"

After discussion, during which the view was advanced that a "disturbance fee" should be paid in addition to the reimbursement at present received for providing the rota service, it was agreed to ask the Department of Health to meet representatives of the Committee to discuss the whole question of remuneration for that service.

The Committee found "completely unsatisfactory" the reply from the makers of Moditen tablets to the Committee's objections to the presentation of a recent sample pack, and decided to tell the company so.

Acting on a suggestion from an N.P.U. branch secretary, the Committee agreed to send a reminder about the recommendation (published in the N.P.U. Supplement) that chemist contractors should make available to their local doctors specimens of the new metric dispensing bottles, so as to provide them with an opportunity of visualising the alterations in size against existing bottles.

Correspondence courses are under consideration because it has been recognised that many pharmacists will not be able to send potential trainees to courses involving day-release. Such a course would have to meet the stringent requirements the Board feels must be laid down to ensure that the standard of training required is maintained and also to meet the requirements that would be laid down by the City and Guilds of London Institute before such a course will satisfy their regulations.

Work has been in progress on the production of a correspondence course for some time and it is hoped that it will be possible to make a definite decision on the programme to be adopted in the near future. No course can be made available immediately.

## EXPANSION PROJECTS

FOLLOWING the take-over a few months ago by Croda International, Ltd., of British Glues and Chemicals, Ltd., about £100,000 is being spent on the expansion of the Castle soap works at Ashby-de-la-Zouch, Leics, of Standard Soap Co., Ltd.

AN agreement has been signed in Japan with the Fujisawa Pharmaceutical Co., Ltd., for the distribution of certain of Fisons "ethical" pharmaceutical products. Distribution covers Japan, South Korea, Okinawa and Taiwan. The agreement is a result of Fisons Group policy to develop its exports by setting up a world-wide marketing and distribution network.



## IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

THIRTY-NINE health centres were opened in England and Wales during 1968; ninety-three are now open and the present indications are that local authorities' earlier estimate of 300 centres in operation by 1975-76 is likely to be exceeded. MR. D. ENNALS (Minister of State, Department of Health and Social Security), gave that information to MR. M. MACMILLAN in a written answer on January 31.

### Cost of Value-added Tax

MR. H. LEVER (Financial Secretary, Treasury), told MR. J. BARNETT, on January 29, that the operation of a value-added tax would entail "several thousands of extra staff and the administrative cost would necessarily be much higher than for purchase tax or selective employment tax."

### Influenza Vaccine, Scotland

MR. H. HUGHES asked the Secretary for Scotland if he would state the amount and distribution of injections against Asian influenza now available for Scottish people.

MR. N. BUCHAN (Under Secretary of State) replied on January 29 that the vaccine was distributed through normal commercial channels so he was unable to state precisely the number of doses now available in Scotland.

### Availability of Amphetamines

DR. J. DUNWOODY asked the Secretary for Social Services on January 30 if he would take steps to reduce further the availability of the amphetamine group of drugs.

MR. R. CROSSMAN replied that the Advisory Committee on Drug Dependence had recently begun a study of the medical, social and legal aspects of those drugs, and had been asked to make recommendations. In the meantime the Chief Medical Officer had drawn the attention of all doctors to the risks attaching to the use of amphetamines and other central nervous system stimulant drugs, and officials of the Department were discussing with the pharmaceutical manufacturing industry the possibility of producing drugs of this kind in a form that would prevent or deter abuse.

### Decimal Currency Bill

When the Decimal Currency Bill came up for its second reading on January 30 MR. DICK TAVERNE (Minister of State, Treasury), said that during the changeover period a shopkeeper would, as a rule, offer goods for sale at a price either in the old or new currency. It would not be open to the customer to decide, if the goods were priced in the new currency, that he would pay in the old currency. The shopkeeper might accept it as a convenience or for goodwill. There should be no special problems for the shopkeeper in the dual currency period. "All he needs to be able to do is to tender either the exact amount of money due or a higher multiple of sixpence (or 2½p, which comes to the same thing) and it will always be possible

for the shopkeeper to give him the exact change."

SIR DOUGLAS GLOVER said he was dubious whether the Decimal Currency Board was right to have taken a decision about compensation at this early stage. The Bill received its second reading.

### Medicines in Sweden

MR. L. PAVITT, on January 31 asked the Secretary for Social Services what study he had made of the proposals for the reform of the supply of medicines in Sweden, and if he would give further consideration to the possibility of an agreement with doctors to limit centrally their prescriptions and for the limitation of the sizes of sample packs for drugs to those available for commercial sale.

MR. CROSSMAN replied that he could not comment finally on the proposals until the more detailed account for which he had called had been studied.

### Drugs and Driving

SIR J. LANGFORD-HOLT asked the Minister of Transport what study he had made of the evidence from the Automobile Association on the subject of drugs and driving and what plans he had for research into the subject.

MR. BOB BROWN (Parliamentary Secretary) replied on February 3 that on present evidence it appeared that the number of road accidents in Britain which could be attributed to drugs was very small. "However we are examining this further to see whether increased research effort would be justified."

## LEGAL REPORTS

### Took Another's Prescriptions

AN eighteen-year-old youth, Anthony Nicholau Petrou, admitted at Highgate, London, magistrates' court on January 29 that he had attempted to procure gr. 2 of cocaine hydrochloride and seven tablets of diamorphine hydrochloride from Boots, Ltd., Muswell Hill, on December 6, 1968. A detective said Petrou had handed in genuine prescriptions at the shop but they belonged to some other man. "The manager was suspicious and telephoned the East London Drug Centre, from which the prescription had been issued." The man whose name was on the prescriptions happened to be with the doctor when the telephone call came through. Petrou was placed on probation for two years.

## COMPANY NEWS

Previous year's figures in parentheses

RECKITT and COLMAN (Australia), LTD., have acquired Samuel Taylor Pty., Ltd. As a result of the merger Reckitt & Colman Holdings, Ltd., will own 75 per cent. of the equity and the Australian public, 25 per cent.

ILFORD, LTD.—Group sales in year ended October 31, 1968, increased to £25.39m. (from £21.13m. in same

period of 1967), but profits were lower at £830,000 (£1.04m.). Exports were up from £7.3m. to £10.5m. Dividend, declared as interim is down from 5½ per cent. to 4 per cent.

NATIONAL STARCH & CHEMICAL CORPORATION, New York, U.S.A. — Unaudited returns for 1968 show net sales at \$119,866,227 (against \$111,882,834 in 1967) and income before taxes at \$17,320,452 (\$14,351,083). Provision for taxes is \$8,486,813 (\$6,539,802).

EASTMAN KODAK, INC., U.S.A. — A record \$272 m. has been budgeted for capital expenditure in the U.S. in 1969. The company have also budgeted \$88 m. for 1969 capital expenditure by its associate companies outside the U.S., including \$50 m. for manufacturing, marketing and distribution facilities in Europe.

HORLICKS, LTD.—The offer for the Ordinary share capital by Beecham Group, Ltd. (C. & D., January 11, p. 287), has been accepted in respect of more than 90 per cent. of the Ordinary share capital and is now declared unconditional. For stockholders who have not yet accepted the offer, the final date for acceptance of the cash option to receive cash in place of the 8½ per cent. unsecured loan stock is February 13.

VENESTA INTERNATIONAL, LTD., is the new trading title adopted by Venesta, Ltd. Companies in the group carrying the name Venesta will also similarly change their names. Venesta International — Packaging, Ltd., has been formed and will comprise U.M.P., Venesta, Ltd., Collapsible Tube Co., Ltd., Caps and Closures, Ltd., U.M.P. Plastics, Ltd., and the group's German packaging operation, Bamberger Kalikofabrik, G.m.b.H. Lord Jellicoe has been elected a director of the parent company.

HICKSON & WELCH (HOLDINGS), LTD. — Final dividend is 10 per cent., making 16 per cent. for the year ended September 30, 1968 (15½ per cent.). In addition to the final dividend, the shares to be issued as part of the purchase consideration of William Blythe & Co., Ltd., will also rank for the dividend of 10 per cent. Group profit after charging depreciation of £407,111 (£364,601) is £1,431,983 (£1,389,706); taxation £628,000 (£609,508) and group net profit after taxation attributable to holding company, £775,309 (£752,520). Mr. R. G. P. Besley has been appointed chairman.

THE CHARTERHOUSE GROUP — The Group has acquired for £51,000 a minority interest in Ormskirk Photo Services, Ltd. As a result of the deal, a new holding company, Northern Associated Photofinishers (Holdings), Ltd., has been formed to acquire both Ormskirk Photo Services and Northern Associated Photofinishers, Chester, in which Charterhouse already has a minority interest. Charterhouse now holds 30 per cent. of the merged group, which becomes one of the largest independent photofinishers in the U.K. The chairman of the holding company is Mr. J. J. Entwisle (Ormskirk Photo Services) and the managing



director is Mr. C. J. Plant (Northern Associated Photofinishers). The board is completed by Mr. E. G. Cox (Charterhouse Group).

### Winding-up Order

**ZYGMUNT CHEMISTS, LTD.**—An order for the compulsory winding-up of Zygmont Chemists, Ltd., whose registered office is in Westbourne Grove, London, W.2, was made by Mr. Justice Plowman in the High Court on February 3 on the petition of Sangers, Ltd., Tolmers Square, Hampstead Road, London, N.W.1, judgment creditors for £785. Counsel for the petitioners said he also represented three supporting creditors whose debts totalled £324. There was a further supporting creditor for £1,575. There were no notices of opposition and Zygmont Chemists, Ltd., were not represented.

### BUSINESS CHANGES

**RIMMEL, LTD.**, and **RIMMEL INTERNATIONAL, LTD.**, have removed to 17 Cavendish Square, London, W.1 (Telephone 01-637 1621).

**MR. G. G. J. HENDRA, M.P.S.**, has transferred his pharmacy to larger premises at 6 Lemon Street, Truro, from 11 Lemon Street.

**MR. J. REED, M.P.S.**, has closed down his pharmacy at 108 Laygate, South Shields, because of a compulsory purchase order on the premises. Inquiries should be directed to 38 King George Road, South Shields, co. Durham.

### Board

**HODDERS, LTD.** — Mr. Ralph Weston, M.P.S., has been appointed chairman and joint managing director in succession to Mr. Lewis Henry Shaw, M.P.S., who retired on January 31.

**STEVENSON & HOWELL LTD.** — Following the acquisition of Stevenson & Howell, Ltd., by Associated British Maltsters, Ltd., Messrs. H. V. Lorenz, K. M. Parker and K. Smith have joined the board of Stevenson & Howell, Ltd., and Mr. J. R. W. Stevenson has joined the board of ABM Industrial Products, Ltd.

### Executives

**BERK PHARMACEUTICALS, LTD.**, have appointed Dr. M. Bamforth their medical director.

**TIMOTHY WHITES & TAYLORS, LTD.**, closed down their branch at 19 High Street, Stamford, Lincs, on February 1, the business being transferred to Boots, Ltd., 69 High Street.

**CHESEBROUGH - POND'S, LTD.**, have appointed Mr. M. W. Wood, their national cosmetics sales manager. Mr. Wood has been their cosmetic division's area manager for London and Home Counties since 1964.

**WELLCOME FOUNDATION, LTD.**, have appointed Mr. W. F. Thompson their regional manager in South and Central America. Mr. Thompson was until recently general manager, Burroughs Wellcome & Co. (Pakistan), Ltd. He qualified as a phar-

macist at Belfast in 1941, and joined Burroughs Wellcome & Co. after war service in 1945.

**E. C. De WITT & CO., LTD.**, have promoted Mr. L. J. Busby to field sales manager of their pharmaceutical sales force. Until recently Mr. Busby was their Midland area manager. Potter & Moore (division of the company) have appointed Mr. R. A. Stephenson their field sales manager in charge of the toiletries division. Mr. Stephenson was formerly Northern area manager of the De Witt company's pharmaceutical sales force.

### Representatives

**PHILLIPS YEAST PRODUCTS, LTD.**, have appointed Mr. D. Layton their representative in Surrey, North-west Kent, and the London districts of East central, West central, South-east and South-west.

### PERSONALITIES

**DR. R. J. L. ALLEN, M.Sc., Ph.D.**, group research director, Beecham Group, Ltd., is one of three new members appointed to the Food Standards Committee. Dr. Allen is also vice-chairman of the British Industrial Biological Research Association; chairman of B.I.B.R.A.'s research policy co-ordinating committee; and a member of the Nutrition Society.

**MR. RONALD LEVIN, F.P.S.**, marketing director, Syntex Pharmaceuticals, Ltd., has been appointed to the company's board of directors. Mr. Levin qualified in pharmacy at the University of Leeds and has spent all of his career in the pharmaceutical industry. He presented papers to the British Pharmaceutical Conferences in 1953 and 1955. His book "The Pharmacy of Silicones," was published by THE CHEMIST AND DRUGGIST in 1958.



### DEATHS

**BINNS.**—On January 20, Mr. Charles Binns, M.P.S., 8 Collier Avenue, Mansfield Woodhouse, Mansfield, Notts, aged fifty-eight. Mr. Binns qualified in 1932.

**COX.**—On January 14, Mr. Reginald George Cox, M.P.S., 28 Linacre Road, Litherland, Liverpool, 21. Mr. Cox qualified in 1923.

**FOULDS.** — On January 27, Mr. William Foulds, M.P.S., Trebarwith, Toltaff Crescent, Penzance, Cornwall, aged sixty-four. Mr. Foulds qualified in 1934 and went to Penzance nineteen years ago when he was manager of the pharmacy department of Timothy Whites & Taylors, Ltd.

**PAYNE.**—On January 18, Mr. Hartnall Edmond Spencer Payne, F.P.S., 112 Sweechgate, Broad Oak, Canterbury, Kent. Mr. Payne qualified in 1913.

**DANIELS.**—On January 29, Mr. Martin Lester Daniels, aged eighty-one.



Mr. Daniels, who worked for several London daily newspapers, later joined the staff of the *Pharmaceutical Journal*. He left active journalism to take up an editorial appointment with the Rexall Drug Co., Notting-

ham. After active service in the 1914-18 war, when he was severely wounded, Mr. Daniels returned to the Rexall Drug Co., and was appointed general manager. He retired from business in 1953 although he remained on the board of Rexall.

**SEATON.**—On January 5, Mr. James Seaton, M.P.S., Roselea, 8 Paradise Road, Teignmouth, South Devon. Mr. Seaton qualified in 1914.

**SHEPPARD.**—On January 14, Mr. Harold Harwood Sheppard, M.P.S., Highdown, New Bryngwyn Road, Newbridge, Mon. Mr. Sheppard qualified in 1926.

**THORGILSON.**—On January 18, Mr. Frederick Charles Thorgilson, M.P.S., 25 Heron Drive, Pilford, Dorset. Mr. Thorgilson qualified in 1927.

**TYRRELL.**—On October 9, 1968, Mr. Frederick John Tyrrell, M.P.S., 99 Salutation Road, Darlington, co. Durham. Mr. Tyrrell qualified in 1938.

**WALLER.** — On January 7, Mr. Robert Herbert Waller, 25 Bickfords Lane, Teignmouth, South Devon. Mr. Waller qualified in 1920.

**WHITAKER.**—On January 22, Mr. J. E. Whitaker, sales manager, food products division, A. Wander, Ltd.

**WORTH.**—On January 1, Mr. Alfred William Worth, M.P.S., 1 Bittaford, Ivybridge, South Devon. Mr. Worth qualified in 1927 and retired from the Register in 1958.

### MANUFACTURERS' ACTIVITIES

**Mobile Sales Force.**—Premier Sales Ltd., Liverpool (manufacturers of Aquasan), have decided to form, from within their own company, a mobile task force of salesmen to supplement their company's area representatives. First "try-out" of the new force in the Lancashire area resulted in the opening up of 400 new accounts.

**"Complete Food" for Young Chess Player.** — A seventeen-year-old London schoolboy who made a successful charity-aiding attempt recently to beat the world record of playing chess non-stop was helped in his bid by Complan, the "complete" food of Glaxo Laboratories, Ltd., Greenford, Middlesex. He was Trevor Stronach, Crouch End, London, who won the title after playing chess continuously at his home for seventy-two hours, three hours longer than the previous record.



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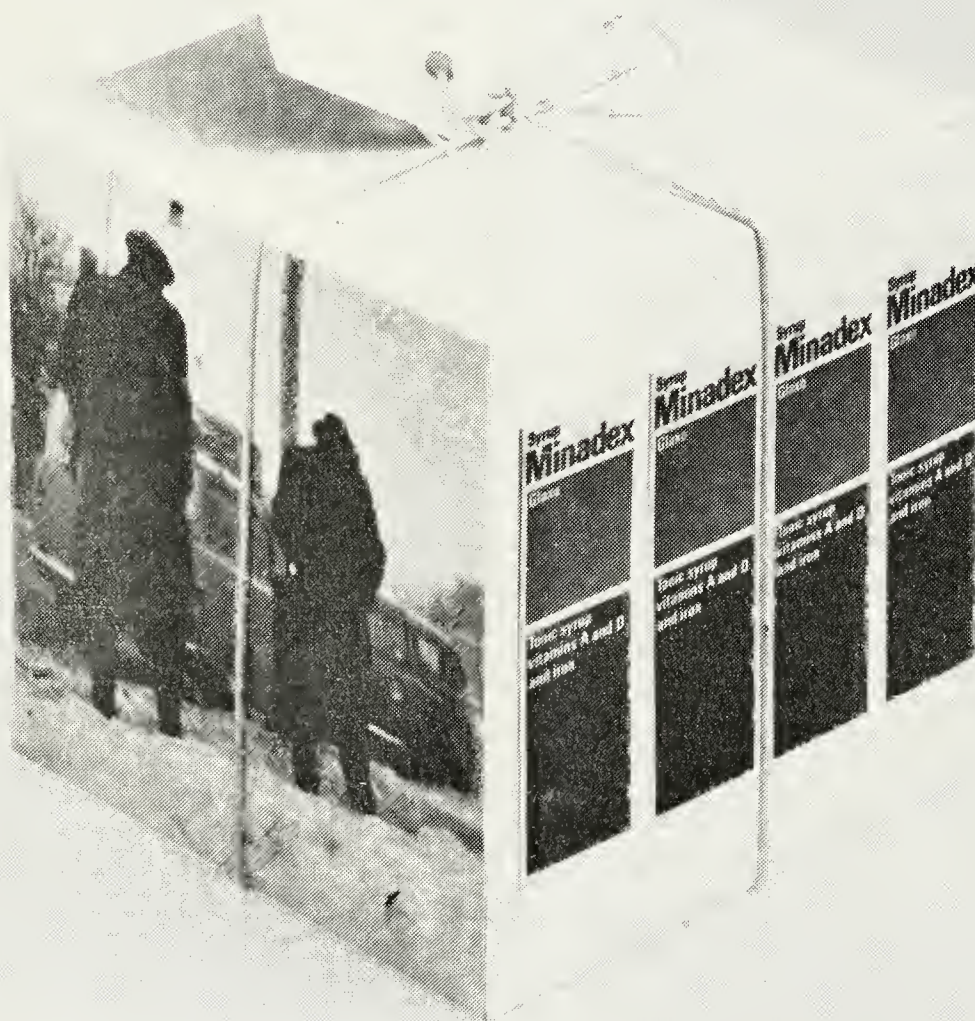
Snow and rain, colds and coughs.  
Very depressing. But at least  
business is bright. Plenty of  
people will be in asking for  
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Minadex is so often  
recommended for all the family  
when winter undermines their  
health. So winter is no time to be  
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## PHOTOGRAPHIC NOTES

**Tripod Agency.** — Agfa-Gevaert, Ltd., Great West Road, Brentford, Middlesex, have now the British agency for Bilora tripods. Range includes two cine tripods.

**Stainless Steel Measures.** — Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4 have introduced two low cost items of stainless steel dark-room equipment. The 500 c.c. jug type measure (15s.) is marked in 50 c.c.s and  $\frac{1}{4}$  pints, while a similar 1,000 c.c.



model (£1 7s.) is marked in 100 c.c.s and  $\frac{1}{4}$  pints. Fitted with a wide base-plate and a strong handle, with boldly marked graduations; besides strength and long life, their major advantage is that due to rapid heat transference the temperature of the liquid can be quickly and easily adjusted by standing the measure in water of the correct temperature. The low price has been reached by quantity production and by using stainless steel of a slightly lighter-than-normal gauge in manufacture.

**Processors Merge.** — Two well-known names in the processing world, Haagman Colour Laboratories and Johnson Processing Laboratories, merged on February 1 to form a new company, Haagman-Johnson Processing Laboratories, Ltd. The company's laboratories will be concentrated at 71 Endell Street, London, W.C.2 (telephone 01-836 2161) and the field of work covered includes black and white, colour reversal and colour negative processing and printing. All work formerly sent to Messrs. Johnsons and Haagmans should be in future sent to Endell Street.

**Camera Sole Agency.** — Japanese Cameras Ltd., 50 Piccadilly, Tunstall, Stoke-on-Trent, ST5 0SW, have entered into a long-term sole-agency agreement with Minolta Camera Co., Ltd. From May 1, Minolta products (except Minolta 16 film) are being distributed only through Minolta stockists and Minolta main dealers. When existing contracts have expired, they will no longer be supplied to non-stockists, wholesalers, professional, commercial, industrial and mail-order concerns. All photographic dealers are being given the opportunity of becoming either stockists or main dealers.

**"Colour International 1969."** — Kodak, Ltd., Kodak House, Kingsway, London, W.C.2, are holding their Anglo-French "Colour International" show for the fifth consecutive year during May. The show is presented jointly by

Kodak lecture service and Kodak Pathe of Paris and features three-screen colour slide "spectaculars" together with pictures taken by photographers from all over the world. Guest speakers are Alfred Gregory and Richard Wilson. Applications for tickets, stating the preferred date, should be made to Lecture Service (69), Kodak, Ltd., Victoria Road, Ruislip, Middlesex, before March 31. The show is being held on May 5 and 6 at City hall, Oval hall, Sheffield; 8 and 9 at St. Georges' hall, Hallings, Bradford, 1; 12 and 13 at City hall, Newcastle, and 15 and 16 at Opera house, Blackpool. Tickets will be distributed in mid April. They entitle the holder to a seat up to 7.50 p.m.

**Lightweight Meter.** — Added to the range of J. J. Silber, Ltd., 11 Northburgh Street, London, E.C.1 is the Optomax CdS exposure meter (99s. 6d.), a compact and lightweight instrument



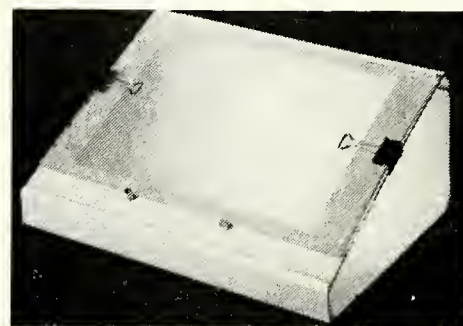
scaled for film speeds 6-3,200 ASA, exposure values 3-17, apertures f/1-32, shutter speeds 1/2,000 to 30 secs. and 8, 18, and 32 f.p.s. cine. The meter is being introduced at the IMPO shows (see C. & D., December 14, 1968, p. 557) when it will be available from stock. A lanyard and zip case are included in the price.

**Optical Test Target.** — Paterson Products, Ltd., 32 Bedford Row, London, W.C.1, have produced a test chart for assessing the comparative performance of lenses, films and developers. The Paterson Optical Test Target (50s.) is filled with an identical set of test patterns repeated sixty-three times, and printed in the four B.S.I. standard printing primary colours. The lens field is thus covered by identical patterns allowing any zones of poor performance to be seen. The variation between the colours allows performance at high and low contrast to be judged and permits lens colour balance to be judged, and colour film rendering to be compared. Since the colours integrate to a neutral grey, "standard" negatives on colour negative materials may be produced for use in colour printing. Step wedges in each pattern assist matching of prints and indicate any variation in gradation quality over the lens field. The Target is designed to enable resolution figures up to fifty line pairs per mm. (equivalent to 100 lines per mm.) or 50 cycles per mm. to be read off when photographed at 25x the lens focal length. The Target comes complete with instruction manual in a

metal capped cardboard tube and is printed on heavy, matt art paper. Distributors are Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4.

**Ilford Products for the Amateur.** — Ilford, Ltd., Ilford, Essex, are continuing to sell their extensive range of amateur black-and-white films, chemicals and enlarging papers, as well as a selection of instant cartridge cameras and cine equipment, said Dr. A. J. O. Axford, the company's newly appointed joint managing director, recently. He was commenting upon speculation about the future of the company's marketing policy for the amateur. Colour processing and printing services would continue to be available to cope with Ilford colour films in the hands of the public and trade. Dealers eligible for the Super Colorprint "processing rebate" would receive their credit on or before March 1. The company had extensive plans for promoting its black-and-white products in the coming season, and retailers and wholesalers would continue to be served by the amateur products division, which had been extensively reorganised following the decision to discontinue supply of Ilford-brand colour films. Production is in fact being stepped up of colour products (sold under the names of other companies).

**Cartoon Kit.** — Tele-Productions (Sales) Ltd., 28 Market Place, Oxford



Street, London, W.1, who are well known as suppliers of acetate sheets in the cartoon industry, have introduced, under the name of Graphical, (59s. 6d.), a cartoon kit designed for the amateur. Additional pre-cut and pre-punched "cels" and paper are available in quantities of 100 sheets. The kit comprises a collapsible animation desk designed to take a low-wattage bulb, two sets of registration pegs, 100 sheets of pre-punched acetate, 100 sheets of pre-punched animation paper, camera dope sheets, a pencil and an illustrated booklet on animation.



## TRADE NOTES

**Change of Size.** — Smith & Nephew Pharmaceuticals, Ltd., Bessemer Road, Welwyn Garden City, Herts, notify that the 568-mil size of Welldorm elixir is being replaced by a 500-mil bottle.

**In Retail Pack Sizes.**—Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts, are distributing Swarfega hand cleanser in retail pack sizes on behalf of Deb Chemical Proprietaries, Ltd., Belper, Derbys. There are three domestic sizes, 8-oz., 2s; 16-oz., 3s. 6d.; and 35-oz., 5s. "Dumper" box display unit and sales display card are available.

**Approved as a Pharmaceutical.** — Whatman Biochemicals, Ltd., Springfield Mill, Maidstone, Kent, point out that the Dunlop committee on the safety of drugs recently approved sodium cellulose phosphate as a pharmaceutical. The material has been used in a number of hospitals over the past few years and from April is being introduced by Messrs. Whatman to a much wider part of the medical profession.

**Bottles Now Embossed.** — Beecham Research Laboratories, Great West Road, Brentford, Middlesex, state that, in order to aid rapid identification of Broxil tablets (125 and 250-mgm. strengths), they are embossing them with the product name. The changeover is being effected as existing stocks become exhausted, and the new tablets are in due course being supplied in standard packs. There is no change in the constituents of the tablets.

**Renamed.** — Terra-Cortril eye/ear suspension has been renamed Terra-Cortril ear suspension. The manufacturers, Pfizer, Ltd., Sandwich, Kent, state that no further recommendation is being made for its use in infections of the eye. The formulation itself has not been changed in any way, but the use of antibiotic/steroid combinations for conditions of the eye, once considered good therapeutic practice, has been criticised in view of the possible presence of resistant bacteria or viruses.

**Formula Changes.**—Cox Continental, Ltd., 85 Church Road, Hove, Sussex, BN3 2BH, announce that, in view of recent reports regarding the risk of renal damage from excessive or long-term usage of phenacetin, they are replacing phenacetin with an equivalent amount of aspirin in the formula of Antoin, Tercin and Sol-Tercin. In every other respect the products remain as before. The new products will come in as stocks of the old become exhausted.

**Distribution Changes.** — The distribution of Slim Disks and Intrin, both products manufactured by Trentham Laboratories, H.T.L. (Nottingham), Ltd., is now being undertaken by the Potter & Moore division of E. C. de Witt & Co., Ltd., Lavender House, London, E.10. Thanking Vestric, Ltd., for co-operation during the past three years, Messrs. Trentham state that the appointment follows a decision to form a close association with the De Witt company, which is taking a consider-

able financial interest in the products. A new product, Trentham pocket packs, to be announced shortly, is also being distributed by Messrs. Potter & Moore, to whom orders for all the products mentioned should be addressed.

**To Distribute "Chemists Only" Biscuit.** — Maws Pharmacy Supplies, Ltd., Barnet, Herts, are now the sole United Kingdom distributors of Rakusen's "Slimms" slimming biscuits. Designed to be eaten in place of carbohydrate foods, Slimms cracker biscuits are un-



derstood to be the only slimming aid of its type to be sold exclusively through chemists. The pack of thirty-six (3s. 6d.) is offered at full trade margin (in minimum quantities of 2 doz. packs).

**Exercise Sandals and the Chemist.**—Over the past five years, say Midland Foot Comfort Centre, Ltd., 14 New Meeting Street, Birmingham, 4, exercise sandals have enjoyed steadily increasing popularity and sales. From the stockist's angle a big point in their favour is that they are not a once-and-once-only sale. People who try them become "addicted" to their comfort, convenience and foot-health benefits, and in consequence try to wear one or another type of health footwear at all times. Health sandals are available in many different styles, from the company's top-selling flat Savanto (19s. 11d.) to such styles as Susie, a glow-finished ivory sandal with sling heel suitable for evening wear. Health sandals incorporating ankle straps and sling heels increase stability for the elderly and arthritic. Scandinavian wooden clogs are now selling in tremendous numbers to teenagers (for they are fashionable), to industry (including dairies, breweries etc.), to surgeons and operating-theatre staffs; and for use in many other occupations—or just for the housewife to change into from sandals when she hangs out the washing. Sales at some independent pharmacies on a single Saturday in 1968 ran as high as 100 pairs.

### Bonus Offers

MAW'S PHARMACY SUPPLIES, LTD., Barnet, Herts. Rakusen's Slimms slimming biscuits. Additional 5 per cent. on order for two or more cases of forty-eight packs.

STAFFORD-MILLER, LTD., 166 Great North Road, Hatfield, Herts. Joy-Rides. Eighteen invoiced as fifteen. Sensodyne. Twelve large invoiced as eleven; six economy invoiced as five.

WELLA (GT. BRITAIN), LTD., Grenville House, Euston Road, London, N.W.1. Wella spray for greasy hair. Fourteen invoiced as twelve. Introductory offer.

CUXSON, GERRARD & CO., LTD., Oldbury, Warley, Worcs. Carnation corn caps. Five to nine unit packs of thirty wallets at 2s. 2d. off trade price per unit pack; ten unit packs of thirty wallets and over at 4s. 5d. off.

GILLETTE INDUSTRIES, LTD., Great West Road, Isleworth, Middlesex. Bud deodorant. 10 per cent. off order for a merchandiser containing six roll-ons, six refills, six aerosols and six puffers. Happy Face washing cream. 5 per cent. off order for 2 doz. Spruce. 8 per cent. off order.

WHITE LABORATORIES LTD., Meggeson-Warrick division, Penarth Street, London, S.E.15. Blue Special pastilles (except glycerin lemon and honey and glycerin and blackcurrant). Thirteen invoiced as twelve. 4½ doz. in free sell-out display at saving of 7s. 7d. on trade price.

H. J. HEINZ CO., LTD., Hayes Park, Hayes, Middlesex. Heinz baby foods. One free case any "junior" 8½-oz. variety not previously stocked with every twenty cases of strained or "junior" cans. One free case of any "junior" variety in glass jars not stocked with every ten cases of strained or "junior" jars. February 10—22.

SOPHISTIQUE, LTD., New Road, Winsford, Ches. Top Note satin shampoo sachet. Sixteen invoiced as twelve. Mister Smiths foam lather shaving cream, large size (6s. 11d.). Fourteen invoiced as twelve. Top Note hair spray refill bottles, regular and firm hold. Fourteen invoiced as twelve. Till April 30.

ALADDIN INDUSTRIES LTD., Greenford, Middlesex. "Spring double" pack containing twenty-eight Aladdin vacuum flasks, and "winning post showcard" with two free flasks (a 16-oz. Escort and new 23-oz. size in Continental range) total bonus 21s. 3d. Retailer receives, completes and returns tote ticket, which on April 30 is placed in a "lucky tote selection." Fifty winners receive £5 each if still featuring a display of Aladdin vacuum flasks.

### Premium Offers

GILLETTE INDUSTRIES, LTD., Great West Road, Isleworth, Middlesex. Right Guard deodorant. 2s. 6d. off 128-gm. size; 1s. 6d. off 85-gm. size; eightpence off spray. Right Guard antiperspirant. 2s. off 120-gm. size; 1s. off 175-gm. size.

TRUFOOD, LTD., London Road, Guildford. Trufood baby milk. Full price of one tin refunded to customer on purchase from a chemist.

WELLA (GT. BRITAIN), LTD., Grenville House, Euston Road, London, N.W.1. Wella spray for greasy hair. Shampoo with each 6-oz. aerosol during an introductory period.

### Discontinued

PFIZER, LTD., Sandwich, Kent. Cortril intra-articular injection 5 mls. Cortril topical ointment greasy 2.5 per cent. 5 gm tube Cortril topical ointment non-greasy 1.0 per cent. 5 gm. tube.



## NEW PRODUCTS AND PACKS

### PHARMACEUTICAL SPECIALITIES

**Aplastic Anaemia Treatment.**—Syn-tex Pharmaceuticals, Ltd., St. Ives House, St. Ives Road, Maidenhead, Berks, have launched a new speciality Anapolon 50 for use in the treatment of aplastic anaemia. Each tablet contains 50 mgm. of oxymetholone, an anabolic steroid. The tablets are packed in canisters of 100.

**Relief in Bronchospasm.**—Major feature of treatment with Medihaler-duo, a new bronchodilator aerosol introduced by Riker Laboratories, Morley Street, Loughborough, Leics, is claimed to be optimum response from small and infrequent dosage without significant changes in pulse or blood pressure. Medihaler-duo provides the complementary actions of isoprenaline hydrochloride and phenylephrine bitartrate so as to give instant and sustained relief of bronchospasm with little if any effect on the cardiovascular system. It delivers to the patient 400 measured doses each containing 0.16 mgm. of isoprenaline hydrochloride and 0.24 mgm. of phenylephrine bitartrate. Use of the product is indicated in bronchial asthma, chronic bronchitis and emphysema.

**A New Tranquilliser.**—G. D. Searle & Co., Ltd., High Wycombe, Bucks, have launched in the United Kingdom a new tranquilliser, Serenace capsules. Each contains 0.5 mgm. of haloperidol. The capsules are designed to give relief

mentary vitamins need to be included in the diet. HF(2) must be used only under medical supervision. It is classified as a drug "when used for the dietary treatment of histidinaemia" and so may be prescribed on EC10 forms. Orders may be placed at Wrenbury (telephone Aston Nantwich 208) or through wholesalers. HF2 is nitrogen-packed in 454 g. (16-oz.) tin.

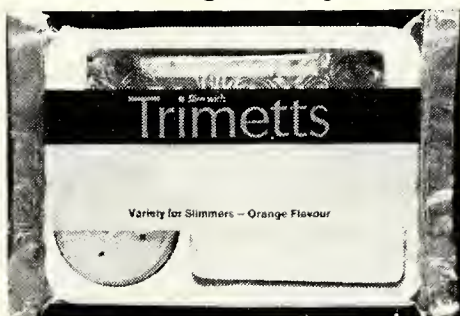
**A Better Product.**—An improved Paedo-Sed analgesic, sedative and antipyretic syrup is now available for infants and children from Pharmax, Ltd., Crayford, Kent. Following requests from clinicians the dichloralphenazone content has been increased by 66 per cent. from 200 mgm. per 5 mls. The



flavour of Paedo-Sed has been changed to lemon, effectively masking, it is claimed, the taste of the active ingredients. The liquid is now colourless and is intended to be diluted in, for example, milk, orange juice and fruit squashes. Packs are a container of 1 doz. 5-ml sachets and bottles of 100 and 500 mls.

### PRODUCTS FOR SLIMMERS

**Single-meal Pack.**—Uniclife, 1 td., Sandwich, Kent, have produced, they claim, the first "variety" pack for slimmers, a single-meal pack called



Trimetts mix (2s. 6d.). Each meal comprises one Trimetts treble, one Trimetts wafer and one Trimetts sandwich biscuit (orange or chocolate flavoured). Outer contains a display tray holding twelve packets.

**Non-Saccharin Sweetener.**—Now being introduced on the British market by Siddonia, Ltd. (a new subsidiary

of Organon Laboratories, Ltd.), Crown House, London Road, Morden, Surrey, is a non-saccharin sweetener Sugrosa described as "completely new." The new product is available in a blue pack "dispenser" containing 100 tablets (2s. 9d.) and white table "dispenser" containing 500 tablets (9s. 6d.)

### COSMETICS AND TOILETRIES

**Spray for Greasy Hair.**—New Wella spray for greasy hair (9s. 9d.) launched by Wella (Gt. Britain), Ltd., Grenville House, Euston Road, London, N.W.1, is designed to protect the hair shaft from greasiness. Used on clean, sham-

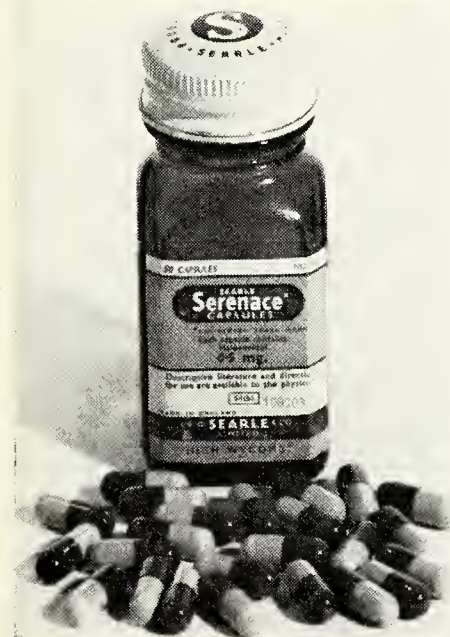


pooed hair, it helps keep the hair soft, avoiding "that dejected, lank appearance." Wella spray for greasy hair does not dull the hair, leaves it shining and elegantly perfumed. Pack is a 6-oz. aerosol.

**New "Soft Touch" Formula.**—Having found from a survey that users of hair sprays dislike the stickiness



and "hardness" of some, F. W. Hampshire & Co., Ltd., Sunnydale, Derby,



from symptoms of anxiety and tension without affecting the patient's ability or will to work. Packs are bottles of fifty, 250 and 1,000 capsules.

**Treatment for Histidinaemia.**—Added to the range of foods offered by Trufood, Ltd., Wrenbury, Nantwich, Ches, for the dietary treatment of metabolic disorders is a new specialised formula food, HF(2). Produced for use in cases of histidinaemia, it is free from histidine. The new product, based on the company's experience with Minafen, is made from amino acids, liquid glucose, vegetable fat, minerals and vitamins. Some other supple-



have developed a new formula that is introduced into their brand leader, Supersoft hairspray. The new formula is termed "Soft Touch," because it leaves hair appreciably softer and silkier. A new resin system (the material that actually holds the hair) is clearer, and markedly reduces stickiness. A new propellant system gives a drier and softer spray. Perfume level of the three Supersoft fragrances has been reduced. All Supersoft hairspray will now incorporate the advanced formula.

**Two Colours for 1969.** — Jean D'Albret (distributors, Sirex, Ltd., Spiella House, Oxford Circus, London, W.1) have introduced two new make-up shades for 1969: "glycine" (wistaria) and "sorbet" (water ice).

**Anti-perspirant Aerosol.** — With the announcement of their new anti-perspirant aerosol, Fresh & Dry (7s. 9d.) by Mum, Bristol-Myers Co., Ltd., 14 Stratford Place, London, W.1, claim to have become the first major entrant within the field to promote an



aerosol anti-perspirant on such a scale. The spray contains aluminium chlorohydroxide plus hexachlorophene blended in an alcohol base. The product thus both combats offensive perspiration odour and checks unpleasant perspiration "wetness." Limited introductory offer is of 2s. and 2s. 6d. off recommended price.

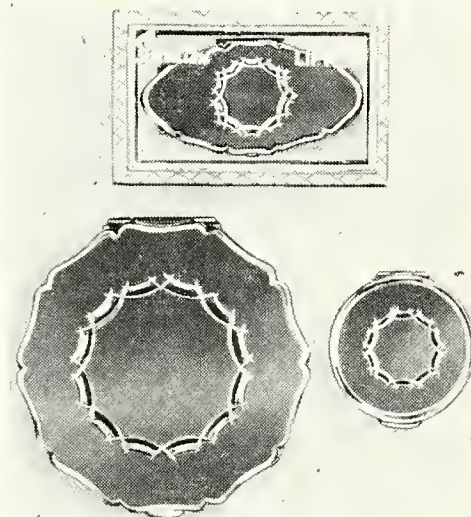
#### HORTICULTURAL SPECIALITIES

**Systemic Insecticide.** — Pan Britannica Industries, Ltd., have launched Topgard systemic liquid, a systemic insecticide with no additives, that may be watered on most fruit and vegetables without risk of taint to make them greenfly-proof. 4 fl. oz. makes 10 gall. Topgard is described as the first systemic insecticide formulation for fruit, vegetables and flowers that does not contain other insecticidal materials. The liquid contains formothion and is approved under the Agricultural Chemicals Approval Scheme for use on fruit, vegetables and flowers. It cannot taint food crops, nor does it leave any long-lasting harmful chemical residues, which means that food crops can be safely picked only seven days after treatment. Topgard systemic liquid may be used as a combined

spray with Dithane and/or DDT garden spray. Packs are containers of 2 and 4 fl. oz.

#### SUNDRIES

**Matching Set.** — Illustrated is a Stratton trio from Laughton & Sons, Ltd., Warstock Road, Birmingham, 14. The items, all in aqua blue enamel with deeply faceted centre, are Lipview



lipstick mirror to take all sizes of lipstick case (295/868, 25s.); Queen convertible compact for solid or loose powder (385/868, 57s.); and matching pill box (075/868, 20s.).

**New Hairbrush and Combs.** — Despite increases in purchase tax, despite import deposits, despite ever rising costs, Royal Sweden are virtually holding the retail price of all hairbrushes in the range and maintaining the same high profit margin and discounts which have always been associated with these

hairbrushes. New for 1969 in the Royal Sweden range of hairbrushes is the modern Paddle (style no. 15244) in birch wood (17s. 11d.). Complementary to both men's and ladies' hairbrushes is a Royal Sweden range of hand-finished imitation-shell combs (4s. and 5s.). Distributors are Jackel & Co., Ltd., Kitty Brewster Estate, Blythe, Northumberland.

**Cold Dye Colours for 1969.** —Dylon International, Ltd., London, S.E.26, announce that 1969 Dylon cold colours (1s. 9d. each) are now in a newly designed tin. Some of the earlier pastel shades (A1, A4, A8, A9, A12) have been dis-



continued; they have been replaced by six "jewel-rich vivids," namely A19 (purple vine), A20 (radiant pink), A21 (Mexican red), A22 (Sahara sun),

A23 (Bahama blue), A24 (leaf green). The remaining subtle colours in the range have been enriched, say Messrs. Dylon International, so as



**REDESIGNED PACKS:** New packaging and point-of-sale material available from Lastonet Products, Ltd., Redruth, Cornwall, for their range of products. The new presentation for surgical stockings is made in a red and black rigid box with better functional properties than the previous Lastonet stocking pack. A display unit carries six packs of stockings and a number of compact pieces of counter and window display material supplied on request.



to give the more definite tints preferred by women today. Total range of colours is now eighteen. Dylon cold is considered particularly suitable for use on wool if, instead of the usual salt

and soda, a special fixing is used, simple household vinegar being ideal for that purpose (quantities are given in the instructions overwrapped on every tin). For dyeing  $\frac{1}{2}$  lb. dry weight

material one tin is sufficient. A special Dylon cold fix in sachet (6d.), for one tin of Dylon cold dye, is offered by the makers for all natural fabrics except wool.

## STORAGE SYSTEMS AT A DRUG WAREHOUSE

### Installations at the Newhouse, Lanarks, works of Organon Laboratories, Ltd.

WHEN Organon Laboratories, Ltd., reorganised and re-equipped recently their distribution warehouse at Newhouse, Lanarks, at which they handle about 1,500 orders a week for the home market (in addition to an expanding export business) they used Dexion equipment. At an early stage in planning the reorganisation they had asked Dexion, Ltd., Empire Way, Wembley, Middlesex, to design the storage installations. In the result, five separate storage and handling systems are used to achieve maximum efficiency.

#### Cosmetics

Cosmetic components are delivered palletised to the warehouse and stored, three pallets deep, in one of the fourteen bays of a Dexion Speedlock drive-in racking installation that accommodates 126 pallet loads. Drive-in racking was chosen because of its economical use of space, and because it provides

greater and safer pallet selection than block-stacking. Before the drive-in installation two permanent staff were required to operate the cosmetic component store, which now occupies only one man for 30 minutes of each day.

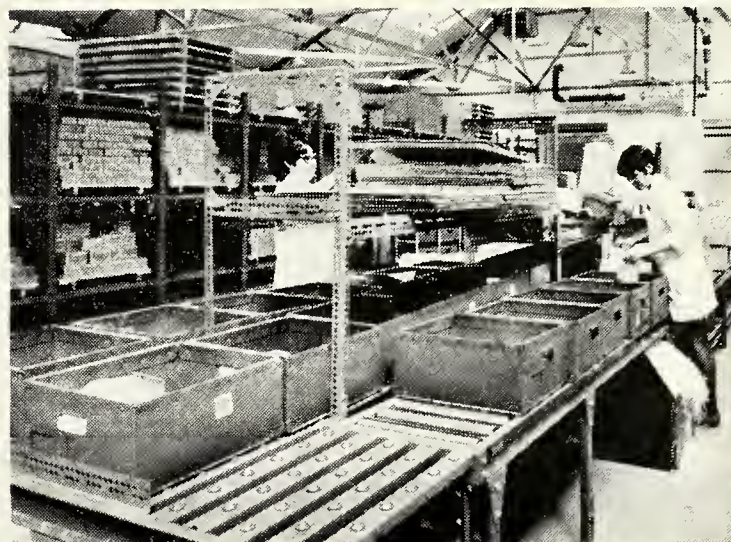
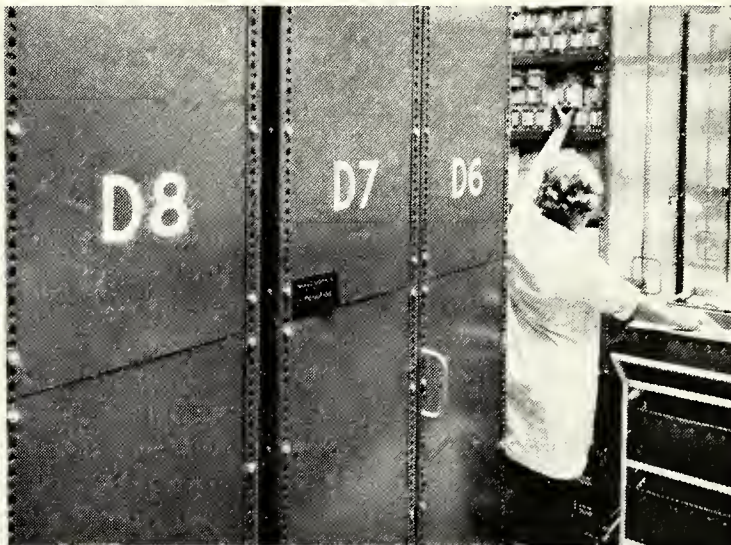
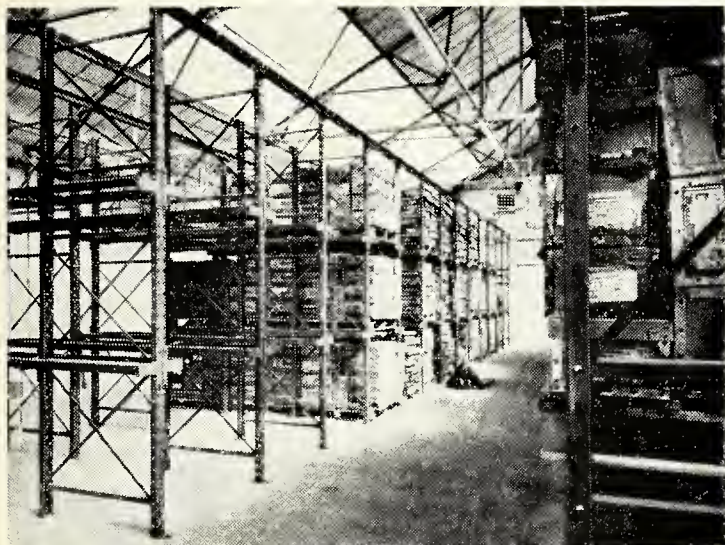
#### Pharmaceuticals

Storage for pharmaceutical preparations is in a Dexion mobile storage installation, each of whose double-entry racks is easily moved when even fully loaded. Use of the system has given a 50 per cent. increase in storage capacity over the previous arrangements within the same area. Certain pharmaceuticals in great demand as well as the cartoned cosmetics are palletised and stored on a Dexion pallet Glidestock installation — a series of gravity conveyors banked side by side and one above the other to form a compact storage block. The conveyors are sloped at a carefully pre-

determined angle so that, when the loaded pallet is placed by fork-lift truck at one end of the conveyor lane it glides over two tracks of free-running wheels to the other, ready for withdrawal, the speed of pallet travel being controlled by brakes fitted in the conveyor lane. Stock rotation is automatic and the installation is so located that the stock withdrawal and "order picking" is close to the packing line.

Collated orders in box containers are placed on Dexion Stratford Autoflow systems roller conveyors and moved to where they are checked, packed and made ready for dispatch.

The overall result of the new arrangements has been to eliminate damage to goods and greatly to simplify stock control. Messrs. Organon's distribution warehouse has achieved, with a 15 per cent. reduction in staff, a 20 per cent. increase in throughput, excluding export orders.



Top row, left: Drive-in pallet racking in cosmetic component store; right: Mobile storage for pharmaceutical preparations; Bottom row, left: Pallet Glidestock installation for fast-moving lines; right: Stratford Autoflow systems conveyors in packing and dispatch department. All are by Comino-Dexion Group of Companies, Dexion House, Empire Way, Wembley, Middlesex.



## Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

### Rural Dispensing in Wales

SIR,—The Plaid Cymru Research Group are making a study on rural dispensing in Wales. They would like to hear from any pharmacist in a rural practice in Wales, in particular those in areas with "dispensing doctors." If any pharmacist would like to help in this study would they please send me their name and address.

CLIVE B. REID,  
4 Sway Road, Morriston,  
Swansea, Glam.

### I Like the Ike

SIR,—I know variants of "ipeca-cuanha" wine\* in customer's requests are a long-standing joke in pharmacy, but the enclosed is a variant I have never met up with before.

A. BELL,  
London, E.3

\*Ike Packe-Any-Wine and Syrup of Tulla.

P.S.—I'm looking forward to C. & D. price list for March. Let's hope you have better luck with it and no more tax changes in the meantime.

### Diluents for Corticosteroid Creams

SIR,—May I point out that, in J. W. Hadgraft's review of the British National Formulary, in the section on dilution of corticosteroid creams and ointments (C. & D., January 11, p. 34), the instructions for triamcinolone acetonide cream should be *Diluted with aqueous cream, B.P.*, and for triamcinolone acetonide ointment *Diluted with wool fat 10 per cent. in white soft paraffin*. Cetamocrogol cream has been used satisfactorily to dilute triamcinolone acetonide cream and testing this substance has not shown it to be incompatible with any of the ingredients in the steroid creams manufactured by this company (see C. & D., January 25, p. 80).

(Miss) J. A. SCOTT, B.Sc., M.P.S.,  
Technical Information Department  
E. R. SQUIBB & SON, LTD.,  
Twickenham, Middlesex

### The Conversion of Britain

SIR,—The excitement must be terrific at Bloomsbury Square as March 3 approaches and the Society's Council sees the fruition of seventy years of struggle to convert Britain to the Holy Metric system. In the Report of the Committee on Weights and Measures Legislation published in May 1951, it is stated, "the Pharmaceutical Society have informed us that for fifty years or more they have sought to effect the change by voluntary methods and that *virtually no success has attended their efforts*." So, in true democratic manner, what they could not achieve voluntarily they have procured by law. I believe that Prince Philip said some time ago that we should soon need a licence to breathe — well we have a Statutory Instrument for dispensing. I feel that we ought to have a special celebration on March 3. Perhaps we should publicly burn the effigy of a

hideous tablespoon. Think of the joy on the face of Mrs. Smith when you tell her that the tablespoonful of mixture that has been her comfort for the last fifty years is now illegal and has been replaced by two of those "sweet little 5-mil plastic spoons." There'll always be an England while there's a plastic spoon.

J. S. CLARKE,  
Weston-super-Mare

### For Chemists' Children and Others

SIR,—Some time ago I read somewhere that the country's leading plate spinner on the stage was at one time a chemist. I am neither a pharmacist nor a plate spinner, but the Cupal pharmaceutical representative for the Midlands and North Wales. I have developed an idea that came to me while going from chemist to chemist in North Wales into a game for children or adults. It is being shown at the Brighton Toy Fair and was recently shown at the Harrogate International Toy Fair before going to Nuremberg in Germany. As it is highly educational the game may be of interest to chemists for their children. The game, "Space Race," is based upon simple astronomy (50 per cent. fact and 50 per cent. fiction. Adults and children who play it will become familiar with (a) the sequence of the planets; (b) their relative sizes; (c) the distance in millions of miles each planet is from the sun; (d) the number of moons each planet has; and (e) other astronomical data. Like pharmacy, astronomy is a dignified subject, therefore I do not feel it unethical to send you this news. It is a great thrill to me to know that I have created something which children of all nationalities can play and enjoy and at the same time learn something of astronomy.

PETER D. BLANCHARD,  
Sutton Coldfield, Warwicks

### Royal Pinner School

SIR,—Commercial travellers, sales and technical representatives and manufacturers' agents will be interested to know that, since this Foundation succeeded our own School at Hatch End, which closed in 1967 mainly because of inadequate finance, it has, in little more than a year, awarded grants totalling over £20,000 to help in the care and education of 140 sons and daughters of colleagues where their families have suffered hardship as a result of death, incapacitating illness, or some other misfortune calling for prolonged assistance, or alternatively temporary help where need can be shown. Whilst the first charge upon resources will always be grants for orphaned children of school age, under its new objects this Foundation is now able to provide assistance on a considerably broader basis than in the past, including an extended age range for beneficiaries, a fact which the board of management desires to be as widely known as possible. Travellers,

directors and personnel officers of companies are invited to request a copy or copies of an informative pamphlet. One final point: the children of commercial travellers, representatives and agents alone may benefit.

W. H. DRAYTON, Secretary,  
Royal Pinner School Foundation,  
110 Old Brompton Road,  
South Kensington,  
London, S.W.7.

### Medicine Spoons

SIR,—What Xrayser said in his column about metrication and labelling (C. & D., January 25, p. 69), seems to me to amount to presumptive evidence of his being a little out of touch with what has been going on in retail pharmacy recently. To begin with he implies that until now the use of the metric system in retail pharmacy has been rare, and he states that "5 ml." means nothing to the public. The facts are that, for the whole of the time since the British National Formulary, 1966, came into operation about two years ago, the term "5 ml." has been in use on dispensing labels for all B.N.F. elixirs and the majority of B.N.F. linctuses and syrups. Then, in advocating the adoption of the admittedly attractive alternative description for the 5 ml. spoon, "medicine spoonful," Xrayser has conveniently forgotten the principal objection described some months ago in your columns (C. & D., January 20, 1968, p. 59), when the dangers of the differences in meaning between the traditional English medicine spoon (the tablespoon) and the Scottish medicine spoon (the dessertspoon) were pointed out. However, despite that objection, the explanatory leaflet now being prepared—at our suggestion—by the Department of Health for issue to the public with all 5-ml. and 10-ml. dose preparations, does make the concession of referring to a "5-ml. medicine spoon." In fact, later on in the leaflet the patient is instructed to "Rinse your medicine spoon . . ." When Xrayser reads this leaflet he will find that his other plea about automatic issue of 5-ml. spoons was similarly anticipated by the Contractors Committee; it states: "You are being given with your medicine a British Standard 5 ml. clear plastic spoon. . . ." I can also assure him that the spoon will indeed be paid for in the same manner as the container. Incidentally, I am glad that Xrayser has not had occasion to wonder what 5 mg. would look like on a scale pan; it would, of course, look just as ridiculous as 1/13th grain. Xrayser's final point about cautionary labelling can be conveniently met by the use of a pharmacy typewriter (as supplied through the N.P.U.), which was designed to transcribe such messages on to ordinary dispensing labels. Some of these cautionary wordings do not arise frequently enough to justify the purchase of a specially printed label, whereas a typewriter with "micro" typeface, used for label writing, can tackle these extras with ease on the same label.

J. WRIGHT, Secretary,  
Central N.H.S. (Chemist  
Contractors) Committee



# From 1st Dec. 1968

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QUARTERLY PRICE LIST  
FOR DECEMBER 1968

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that will not be repeated

(Note: If you lose a sheet, please apply to the Publisher for a replacement.)

To know whether a product has changed in price since the current Quarterly Price List appeared, look at the index which follows. If the product is listed, turn to the page number indicated. If not, turn to the Q.P.L. itself for the price of the product.

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### AMENDMENTS TO KEY TO SUPPLIERS

- 27 Alcona = Alcona Products, Ltd., 1 Grenville Road, London, N.19. 01-272 4618  
47 Anestan = Anestan, Ltd., Rankine Road, Daneshill West, Basingstoke, Hants. 0256-25051.  
201 Brunton = Brunton Chemists, Ltd., 50 Jesmond Road, Newcastle upon Tyne, NE2 4PQ. Newcastle 811243.  
210 B & C Butler & Crispe, Ltd., 1 Glyn Street, London, S.E.11. 01-735 9494.  
319 CLL = Creighton Laboratories, Ltd., Water Lane, Industrial Estate, Storrington, Pulborough, Sussex. Storrington 3452.  
350 Dana = Dana Sales Ltd., 19 Grosvenor Street, London, W.1. 01-493 0311.  
357 D5 & H = Day, Son & Hewitt, Ltd., 25 Auckland Street, London, S.E.11. 01-735 0071.  
512 GF = Giles Farnaby of London, Ltd., 143 New Bond Street, London, W.1. 01-499 5566.  
710 Knox = Knox Laboratories, Ltd., 4 Arundel Street, London, W.C.2. 01-836 5692.  
819 McY = McClure, Young & Co., 25 Auckland Street, London, S.E.11. 01-735 0071.  
973 Pharmitalia = Pharmitalia (U.K.), Ltd., Kingmaker House, Station Road, Barnet, Herts. 01-440 7171.  
988 Pollen = Pollen Products, Ltd., 841 High Road, London, N.12. 01-445 8911.  
1092 Saga = Saga of Bond Street, Ltd., 457 Edinborough Avenue, Slough, Bucks. Slough 30424.  
1317 Westberry = Westberry (Brixham), Ltd., Churchill Court, Brixham, 5. Devon. Brixham 3706.  
1482 NP = Nationwide Pharmaceuticals, Ltd., 25 Auckland Street, London, S.E.11. 01-735 0071.  
1488 LC & C = Leopold Charles & Co., Ltd., 233 Shaftesbury Avenue, London, W.C.2. 01-836 2024.  
1520 IPM = Interfran Product Management Sunley House, Bedford Park, Croydon, Surrey. 01-686 7345.  
1529 PP = Please Petfoods, Ltd., 165 The Crescent, Chalvey, Slough, Bucks. Slough 24343.

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		Ferguson, Shaw & Sons, Ltd., 11		Lustys Natural Products Co. Ltd., 54



Manly Co.,	13	H. N. Norton & Co., Ltd.,	14	Ltd.,	15	Sandersons (Chemists), Ltd.,	4	Thermos, Ltd.,	17
Sidney Margolis, Ltd.,	35	M. & R. Norton, Ltd.,	27	Potts Infant's Friend, Ltd.,	33	Sandoz Products, Ltd.,	33	Hubert A. C. Thomas Co.,	17
Thomas Marns & Co.,	4	Norvic Electric, Ltd.,	14	Precision Engineering Co. (Reading), Ltd.,	41	Sarakan Products,	25	Thorton & Ross, Ltd.,	54
Marshall's Pharmaceuticals, Ltd.,	13	Oakes & Co., Ltd.,	24	Premier Sales, Ltd.,	15	Schick Electric, Ltd.,	19	Tidman & Son, Ltd.,	17
Marshall's Proprietaries, Ltd.,	13	Odedent, Co.,	14	Pritchards, Ltd.,	15	Scholl Manufacturing Co., Ltd.,	42	Tillotts Laboratories,	17
Leslie Martyn, Ltd.,	40	William Oliver's (Rubber), Ltd.,	14	Procter & Gamble, Ltd.,	33	Schwarzkopf (Corionol), Ltd.,	25	Tokalon, Ltd.,	17
Mason Pearson Bros.,	13	Opotheurapeutics, Ltd.,	14	Progress Shaving Brush (Vulfix), Ltd.,	19	Schwepes (Agencies), Ltd.,	16	Toni Co.,	25
Matthews Laboratories, Ltd.,	24	Oppenheimer, Son & Co., Ltd.,	24	Pyser-Britex (Swift), Ltd.,	15	Scott & Bowne, Ltd.,	16	Torbet Laboratories, Ltd.,	17
D. Mawdsley & Co. Ltd.,	27	Orstrax, Ltd.,	14	Qualcast Fleetway, Ltd.,	15	Sealand Trading, Ltd.,	16	Trimster Co., Ltd.,	33
Mawson & Proctor Pharmaceuticals, Ltd.,	13	Ortho Pharmaceuticals, Ltd.,	14	Mary Quant Cosmetics, Ltd.,	25	Selto (Eastbourne), Ltd.,	25	Ucal (Brook Parker), Ltd.,	42
Max Factor, Hollywood & London (Sales), Ltd.,	13	Osborne, Garrett, Nagele, Ltd.,	14	Racasan, Ltd.,	15	Seneschal Manufacturing Co., Ltd.,	16	Ulster Plastics (Sales), Ltd.,	33
Mayfair Chemicals, Ltd.,	24	Ottowell & Son, Ltd.,	33	Radiol Chemicals, Ltd.,	3	Shadforth, Ltd.,	16	Ulter (Bradford), Ltd.,	19
McClure Young Co.,	40	W. T. Owbridge, Ltd.,	14	Raimes & Co., Ltd.,	33	Shadler, Ltd.,	16	Unichem, Ltd.,	25
McKesson & Robbins, Ltd.,	32	Ozonol Laboratories, Ltd.,	14	Raimes Clark & Co., Ltd.,	15	Shulton (Great Britain), Ltd.,	36	Unicliffe, Ltd.,	17
M.C.P. Pure Drugs, Ltd.,	14	Paines & Byrne, Ltd.,	14	Ramer Chemical Co., Ltd.,	15	A. L. Simpkin & Co., Ltd.,	16	Union Jack Paste Co., Ltd.,	34
Medaped, Ltd.,	32	S. A. Palmer, Ltd.,	3	Rapidol, Ltd.,	33	Sirex, Ltd.,	25	United Chemists Association, Ltd.,	42
Medico-Biological Laboratories, Ltd.,	14	Papier Poudre, Ltd.,	48	Rayette Faberge, Inc.,	15	Sister Lauras Infant & Invalid Food Co., Ltd.,	33	Vacco, Ltd.,	34
Medo-Chemicals, Ltd.,	20	Parfums Corday	48	Raymond (Salon Supplies), Ltd.,	15	Slimaid Products, Ltd.,	20	Vaughan Pharmaceuticas	17
Meltonian Wren, Ltd.,	14	Parfums de Lucien Lelong Ltd.,	48	Rayner & Co., Ltd.,	15	Leonard Smith & Co.,	17, 42	Victor of Milan, Ltd.,	17
Menley & James Laboratories,	24	Parfums de Paris, Ltd.,	33	Raywar Textiles, Ltd.,	44	Smith Kendon, Ltd.,	17	Violiv Manufacturing Co. (1928)	34
Mentholum Co., Ltd.,	14	Parfums Givenchy, Ltd.,	35	Reade Brothers & Co., Ltd.,	15	Smith Kline & French Laboratories, Ltd.,	25	Vitacoat, Ltd.,	17
Merck Sharp & Dohme, Ltd.,	14	Parfums Le Galion, Ltd.,	35	Reckitt & Sons, Ltd.,	15	Smith & Nephew Pharmaceuticals, Ltd.,	42	Vocalzone, Ltd.,	18
Merrell Division, Richardson Merrell, Ltd.,	14	Parfums Revillon, Ltd.,	41, 48	Remington Electric Shaver Division,	25	Wilfrid Smith (Fine Chemicals), Ltd.,	17	Wade Pharmaceuticals, Ltd.,	34
Merryow Wine Co., Ltd.,	14	Parim, Ltd.,	14	W. J. Rendell, Ltd.,	15	Solport Brothers, Ltd.,	25	Walker Davis & Co., Ltd.,	18
Milesden, Ltd.,	14	Parke-Davis & Co.,	14	Renipas Chemical Co., Ltd.,	19	Sophistique, Ltd.,	25	Wallace Laboratories,	18
Miles Laboratories, Ltd.,	27	Parkinsons, Ltd.,	14	Revlon International Corporation,	41	Jean Sorelle, Ltd.,	42	A. Wander, Ltd.,	34
Gordon Miller, Ltd.,	24	F. C. Paton (Southport), Ltd.,	14	Rexall Drug Co., Ltd.,	15	Souplex, Ltd.,	17	Ward Blenkinsop & Co., Ltd.,	18
Miller of Golden Square, Ltd.,	32	Payot, Ltd.,	33	Reynolds & Branson, Ltd.,	15	Southalls (Sales), Ltd.,	25	Warmabed, Ltd.,	18
Modern Health Products, Ltd.,	14	Pearmoss, Ltd.,	54	Richardson-Merrell, Ltd.,	42	Southon Laboratories, Ltd.,	17	William R. Warner & Co., Ltd.,	18
Monil, Ltd.,	14	Peptinol (G.B.), Ltd.,	24	Riche (Mayfair), Ltd.,	15	Spencer & Co.,	17	J. Waterhouse & Co., Ltd.,	18
Monogram Electric Housewares	19	J. L. Perl, Ltd.,	14	Riddell Products, Ltd.,	15	Sponcel, Ltd.,	17	Henry Weinberger, Ltd.,	43
Moore Medicinal Products, Ltd.,	14	A. D. Perrie Distributors, Ltd.,	33	Riker Laboratories,	15	E. R. Squibb & Sons, Ltd.,	19	Wella (Gt. Britain), Ltd.,	18
Morgans Pomade Co., Ltd.,	20	E. G. Perrot & Co., Ltd.,	33	Rimmel International, Ltd.,	33	Stafford Miller,	17	Wendover House, Ltd.,	18
Morny, Ltd.,	40	Pfizer, Ltd.,	15	Robapharm, Ltd.,	15	Stanwoods Proprietaries, Ltd.,	17	Westberry of Devon,	43
Myeto Products, Ltd.,	32	Pharmaceutical Manufacturing Co.,	24	Roberts' Croupline, Ltd.,	15	John Steedman & Co.,	25	Brian S. Westmacott, Ltd.,	25
Myram Picker, Ltd.,	24	Pharmaceutical Specialities (May & Baker), Ltd.,	15	Roberts & Sheppey, Ltd.,	16	Steiner Products, Ltd.,	33	Westminster Laboratories, Ltd.,	18
H. R. Napp, Ltd.,	14	Pharmax, Ltd.,	15	Roberts Windsor, Ltd.,	16	I. & M. Steiner (1950), Ltd.,	17	Whaley Pharmaceuticals,	18
Jean Nate	32	Phenolaine, Co.,	15	James Robertson & Sons, P. M., Ltd.,	16	Stewart, Goodall & Dunlop, Ltd.,	17	Whisper Cosmetics, Ltd.,	19
N.P.U. Products	40	Philip Harris Medical, Ltd.,	41	A. H. Robins Co., Ltd.,	16	Stiefel Laboratories (U.K.), Ltd.,	17	J. F. White & Co., Ltd.,	34
Nationwide Pharmaceuticals Ltd.,	41	Philips Electrical, Ltd.,	27	Robinsons & Sons, Ltd.,	19	C. A. Stokes & Co., Ltd.,	27	White Hudson & Co., Ltd.,	18
Natura Products, Ltd.,	32	Phillips, Scott and Turner Co.,	27	Roche Products, Ltd.,	4	Strenol Products, Ltd.,	17	White Laboratories, Ltd.,	4
Nestle Co., Ltd.,	14	Phillips Drug Stores (Wholesale) Ltd.,	41	Rodmill, Ltd.,	16	Sunbeam Electric, Ltd.,	17	Whiteways Cyder Co., Ltd.,	18
New Era Laboratories, Ltd.,	3	J. Pickles & Sons	27	Roger & Gallet	16	Supervite Manufacturing Co., Ltd.,	17	Wigglesworth, Ltd.,	18
New Hygiene Ltd.,	14	Picot, Ltd.,	15	Rona Laboratories, Ltd.,	16	Sutcliffe & Clarkson, Ltd.,	17	Wilcox Jozeau & Co., Ltd.,	34
Nicholas Laboratories, Ltd.,	54	Plastic Research & Development, Ltd.,	15	Ronson Products, Ltd.,	16	Swansdown Cosmetics, Ltd.,	58	Wilkinson Sword, Ltd.,	27
Nicholas Products, Ltd.,	14	Please Perfoods, Ltd.,	15	Rorer Laboratories, Ltd.,	16	Graham Tatford & Co., Ltd.,	17	Willows Francis,	25
Nigroid Ferris, Ltd.,	24	C. J. Plucknett & Co., Ltd.,	27	Rose Laird, Ltd.,	16	Technical and Optical Equipment (London), Ltd.,	17	Windak, Ltd.,	18
Norgine, Ltd.,	3	Pleasure Perfoods, Ltd.,	15	Ross Optical, Ltd.,	16	Teeda, Ltd.,	19	W. Woodward, Ltd.,	25
James North & Sons, Ltd.,	35	C. J. Plucknett & Co., Ltd.,	27	Helena Rubinstein, Ltd.,	16	Tell Products, Ltd.,	17	Worth Perfumes, Ltd.,	19
Northern Pharmaceuticals, Ltd.,	20	Polaroid (U.K.), Ltd.,	19	Rutin Products, Ltd.,	16	Thawpit, Ltd.,	17	Wright Layman & Umney, Ltd.,	18
		Potter & Clarke, Ltd.,	15	Rybar Laboratories, Ltd.,	16	Therapeutic Products, Ltd.,	17	Wrigley Co., Ltd.,	25
		Potter & Moore,	24	Sabona Rheumatic Relief Co., Ltd.,	25	Thermalux Electric Products, Ltd.,	17	John Wyeth & Bro, Ltd.,	18
		Potter's (Herbal Supplies),	24	Saga of Bond Street, Ltd.,	16	Thermega, Ltd.,	17	Yardley of London, Ltd.,	26
				Sale Pharmaceuticals, Ltd.,	16			Zyma (U.K.), Ltd.,	15
				Geo. Salter & Co., Ltd.,	25				

## THIS WEEK'S CHANGES

Prices are given in the sequence Trade Price per Doz.; Purchase Tax per Doz.; Retail Price. Bold upright figures (2 9) in the retail price column indicate that the price is subject to resale price maintenance; italic figures (2 9) that it is recommended by the manufacturers; and light upright figures (2 9) that it is "notional" as a guide to the retailer in determining his own retail price.

<b>4711 (1113 S &amp; B)</b>				
R Colognettes				
No 210	—	—	2 11	
No 9210	—	—	9 9	
● <b>Ace (1404 DHA)</b>				
tooth brushes	—	—	3 0	
D Actifs (819 Mc Y) existing entry				
I Acti's (1521 Pharm Dis)				
capsules	48 69 0	24 10	10 6	
D Alopecinin (1482 NP) existing entry				
I Alopecinin (1521 Pharm Dis) ts4B				
pomade	1oz 17 0ea	6 4½ea	29 10	
tablets	30 17 10ea	6 4½ea	29 10	
R <b>Aquasan (1000 Premier)</b>				
toilet cleanser	35 3	—	3 11	
D Aychar (552 H & R) existing entry				
Aychar (552 H & R)				
Anobal rectal				
ointment	36 0	13 3	5 6	
Balderm skin balm	30 0	11 0	4 9	
Burton bunion cream	36 0	13 3	5 6	
Calgest stomach powder	33 0	12 2	5 0	
Perbal chilblain ointment	36 0	13 3	5 6	
Reobal muscular				
ointment	36 0	13 3	5 6	
Reodermer muscular cream	36 0	13 3	5 6	
Trogeloz lozenges	27 0	9 11	4 3	
R <b>Betadine (878 Napp)</b>				
D Betagen (68 AH)				
A Calazeam (312 AC) cream	19 0	6 11½	2 9	
R <b>Carena (980 Photopia)</b>				
projector zoom	2266	4ea1199	6ea4599 0	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> A = Price Advanced  R = Price Reduced  ● = New entry  D = Delete  C = Correction  I = Insert </div>				
A <b>Cestra (1073 Robinson)</b>				
face masks standard	201 7	—	24 0	
	(gross)		(doz)	
Cherry Orchard (994 P & M)				
frame purse nylon	6101 60 0	21 5	9 3	

Lurex	6102 66 0	23 7	9 11	
satin	6103 63 0	22 6	9 9	
Fiesta	6104 63 0	22 6	9 9	
zip purse	6111 32 0	11 7	5 0	
frame bag				
nylon	6211 132 0	47 2	20 6	
satin	6213 155 0	55 4	24 0	
Dorothy	6271 101 0	54 2	16 11	
Dotty	6281 68 0	36 6	11 5	
Fifi	6241 132 0	47 2	20 6	
Gigi	6231 132 0	47 2	20 6	
Judy	6253 148 0	52 11	22 11	
Andrew	6335 52 0	18 7	8 0	
Charles (Paisley)	6317 162 0	58 0	25 0	
Charles (Tweedex)	6316 148 0	52 11	22 11	
Edward	6345 68 0	24 4	10 6	
tissue cover				
nylon	6401 50 0	—	6 3	
R <b>Cinemax (817 MPS)</b>				
cine cameras				
Super 8	C401 591	0ea 313	0ea1199 6	
	C501 689	8ea 365	0ea1399 6	
	C801 985	4ea 521	6ea1999 6	
projector	8GFR5 591	0ea 313	0ea1199 6	
R <b>Codecortone (837 M5D) T5</b>				
tablets 1 mgm	100 3	9ea	—	
	500 15	9ea	—	
	100 12	9ea	—	
	500 57	3ea	—	
A <b>Conqueror's (312 AC)†</b>				
anti smoking				
tablets	18 39 0	14 3½	6 9	
D <b>Cortil (969 Pfizer) TS</b>				
intra-articular				
injection	5 mils			



Co-Caps, 361 Lillie Road, London, SW6. Telephone: 01-370 4664

A	Singha, Dr. (1144 DS)†								
	asthma tablets	9	13	0	4	9½	1	9	
		36	43	0		15	9	6	4
		90	102	0		37	4½	15	1
	Slim Disks (1568 Trencham)								
I	(distributors 994 P & M)								
A	Soligor (817 MPS)								
	exposure meters								
	UF	55	2ea	29	3ea	112	0		
	Selecto	66	6ea	35	3ea	135	0		
	Sensor	77	10ea	41	3ea	158	0		
	flashguns								
	cubematic	18	8ea	10	0ea	38	0		
	Sensor	127	10ea	67	9ea	259	6		
	flashcube adaptor	5	10ea	3	1ea	11	10		
	projector Super 8	591	0ea	313	0ea	1199	6		
I	Solray (667 JCL)								
	flashgun electronic	118	0ea	62	6ea	239	6		
•	Sugrosa (1533 Siddonia)								
	sweetener tablets								
		100	74	3	—		2	9	
			(3 doz)						
		500	64	1	—		9	6	
			(pack of 9)						
	Sure (\$09 Gibbs)								
•	deodorant								
	roll-on with anti-								
	perspirant	33	2	18	3	5	3		
D	Terra-Cortril (969 Pfizer)TS								
I	eye/ear suspension								
	ear suspension								
		5mils	7	3ea	—	10	10½		
D	Tokalon (1240 Tokalon) existing entry								
I	Tokalon (1240 Tokalon)								
	cleansing cream jar	10	9	5	11	1	11		
	facepowder	19	6	10	9	3	5		
	rose skinfood small	14	6	8	0	2	7		
	jar 25gm	26	0	14	4	4	4		
	43gm	31	0	17	1	5	8		
	95gm	52	0	28	7	10	6		
	vanishing cream								
	small	10	0	5	6	1	9		
	jar 30gm	25	0	13	9	4	2		
	48gm	30	0	16	6	5	6		
	100gm	50	0	27	6	10	0		
•	Toprose (1400 FBI)								
	disease spray, foliar								
	feed, pest spray								
	sachets	14	0	—		1	9		
I	Tosca (1113 S & B)								
I	perfume								
	small	—		—		9	9		
	medium	—		—		18	0		
	sorry flacon	—		—		25	9		
	Unomat (667 JCL)								
	flash unit	1000	147	4ea	78	0ea	299	0	
A		2000	186	8ea	99	0ea	379	0	
		3000	137	6ea	72	9ea	279	0	
R		4000	216	4ea	114	6ea	439	0	
A		5000	245	10ea	130	3ea	499	0	
		6000	295	2ea	156	3ea	599	0	
		7000	334	8ea	177	0ea	679	0	
		1000P	509	6ea	269	9ea	1034	0	
A	Vanispot (312 AC)								
	facial cream	20	6	7	6¼	3	6		
R	Wata (980 Photopia)								
	cube flash II	22	4ea	11	9ea	45	3		
D	Watalux (980 Photopia) existing entry								
I	Watalux (980 Photopia)								
	flashguns								
	Combi and case	16	4ea	8	6ea	33	0		
	X2 and case	37	0ea	19	6ea	75	0		
A	Watameter (980 Photopia)								
	rangefinder I	43	10ea	23	3ea	89	0		
	II	51	4ea	27	3ea	104	3		
	super	55	2ea	29	3ea	112	0		
	case	6	0ea	3	3ea	12	3		
•	Wella (1318 Wella)								
	spray for greasy								
	hair	59	0	32	6	9	9		
•	Wellform (1154 5NP) †s4B								
	elixir	500mils	12	0ea	—	18	0		
D		569mils	—		—	—	—		
A	Zim (312 AC)								
	dental balm	19	0	6	11½	3	0		
	pastilles	17	0	6	2½	2	9		
	Zom (312 AC)†								
A	tablets	25	14	6	5	3¾	2	9	

**1521 Pharm Dis=Pharmaceutical Distributors,**  
10 West Bar Green, Sheffield, S1 2 DA. 0742-29238.  
**1533 Siddonia=Siddonia Ltd.,** Crown House,  
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## International Control of Biologicals

THE current (January 1969) edition of the *W.H.O. Chronicle*, published in Geneva, contains an important article on the World Health Organisation's rôle in the control of biological preparations. Written by Mr. A. G. Matthews (Chief of Quality Control, Commonwealth Serum Laboratory, Melbourne, Australia) the material is based on a paper presented to the Australian Pharmaceutical Science Association in 1968.

The author reviews the history of W.H.O.'s influence in this field since its inception in 1948 and points out that the work of setting up and distributing international biological standards was taken over from the Health Committee of the League of Nations. The first international standard (for diphtheria antitoxin) was established in 1922 and is still in use today.

Between 1922 and 1948 the number of international standards distributed by the League of Nations grew to thirty-two, and included standards for antibiotics, antibodies antigens, hormones, vitamins and enzymes. The total of international biological standards issued by W.H.O. is now seventy-nine, and in addition there are fifty-six international biological reference preparations. In recent years ninety-six international biological reference reagents have also been established.

In his article Mr. Matthews defines the main purpose served by the standards, reference preparations and reference reagents as providing a means to ensure world-wide uniformity in expressing the potency of preparations used in the prophylaxis, therapy or diagnosis of human and animal diseases. Most of the substances considered cannot be characterised fully by chemical and physical methods, and their activity may be measurable by biological assay and the results expressed as a ratio of activity to that of closely related physical specimen called the International Standard. Increased knowledge has permitted some substances that formerly requiring biological assay to be characterised fully by chemical and physical means, and for those the international biological standards have been discontinued. Among them are vitamins B, C, and E, ouabain, oestradiol, androsterone and progesterone.

For some of the international biological standards that have been discontinued, corresponding international chemical reference substances have been made available by W.H.O. and, for the second edition of the International Pharmacopoeia, about forty such substances are being established, including cardiac glycosides, steroids and semi-synthetic penicillins. The author considers the international requirements for biological sub-

stances and the general requirements for manufacturing establishments and control laboratories.

What force attaches itself to these international requirements? They are legally binding only if they are incorporated into national regulations, but the advantages of adopting them are so great that even in countries that have not legally done so, the requirements considerably affect manufacturers, since they constitute recommendations based upon the advice of international experts.

The author concludes by pointing out that the initiative for setting up standards and reference preparations usually comes from the W.H.O. Expert Committee on Biological Standards, which is convened annually in Geneva, and that the distribution of international chemical reference substances is the function of the W.H.O. International Centre at the Apotekens Central-laboratorium in Solna, Sweden, the work being initiated by the Expert Committee on Specifications for Pharmaceutical Preparations.

## Training in the Identification of Drugs

"DURING the past few years," wrote H. G. Greenish and Eugene Collin in their preface to "Anatomical Atlas of Vegetable Powders," published in 1904, "the anatomy of drugs and the microscopical characters of powdered drugs and foodstuffs have attracted constantly increasing attention in this and other countries; and such studies now occupy an important place in the educational curriculum of pharmacists in Europe and in America." They no longer do—certainly not in Great Britain and America, though the statement may still be true of many countries on the Continent.

With rapid increase in the use of synthetic organic substances and corresponding decrease in the use of galenicals, with the recent advances in medicinal chemistry, physical pharmacy and pharmacology, and with the more modern concept of pharmacognosy — the emphasis on plant constituents — there has resulted a serious reduction in the amount of time spent by the pharmacy student in studying the anatomy of drugs and the microscopical characters of powdered drugs, spices and foodstuffs. Before the 1939-45 war pharmacy students spent much time examining in detail most of the drugs in common use and acquired in so doing a fair experience in such work. Today it is only possible to introduce them to the techniques, to show them examples of the cells, cell contents and tissues involved and hope they will acquire sufficient background to enable them to identify any powdered drug with the aid of suitable references. The curriculum reflects a more scientific method of undertaking the study than the repetitive studies of the past, but even so it requires a minimum amount of time to do properly, and the indications are that pressures from other subjects will tend to reduce the amount of time available for it to an absurdity or even eliminate it altogether. That would be a tragedy, even for the modern pharmacist, since he is one of the few professional people able to use a microscope as an analytical tool. For, in spite of the apparent decline in the use of crude drugs the actual monetary turnover in the commerce of crude drugs and botanicals is steadily increasing. The fact that the purified constituents are isolated from them for medicinal use does not mean that the identity of the crude drugs can be taken for granted (as some



pharmaceutical manufacturers know only too well) and if the drug is supplied in the crushed or powdered condition, then microscopical examination of them becomes essential.

## Estate Duty Problems and Possibilities

EVERY proprietor pharmacist needs to face up to the fact that almost certainly estate duty (often referred to as death duties) will have to be paid at his death. It is payable on estates as low as £5,000.

If his family is not to be burdened by the duty (which could compel the business to be sold), he should start making arrangements as early as possible in life, either to avoid estate duty as much as possible, or to build up a fund (probably through life assurance) that will be available to meet it.

Despite the changes that have been made as a result of the 1968 Finance Act, probably one of the best ways to lessen the impact of estate duty is to give away to one's family as much as possible of one's wealth and interests during his life-time. There should be little difficulty about putting that intention into operation if the business is a company with share capital. All that needs to be done is to give away some of the shares one owns. However, the shares will not be free of duty so soon as they are given away. Gifts used formerly to be liable to some estate duty for up to five years after they had been made. They were not free of duty until the donor had lived for five years after making the gift. That period has been extended to seven years.

If the gift was made less than four years before the death of anybody dying after 1968 Budget Day (March 19), the full value of the gift at the time of death is included in the estate for duty purposes. That means that whoever has been given the shares or money will have to pay the duty.

After the fourth year, there is a reduction in the amount, which will be included in the estate for calculating the duty. For instance, if death takes place in the fifth year after the making of the gift, the value of the gift is reduced by 15 per cent. for the purposes of estate duty.

There is a further improvement in the position in the event of death in the sixth year after a gift is made. In the event of death in the seventh year (the last year before the gift becomes entirely free from estate duty), the reduction is 60 per cent., so that only 40 per cent. of the value of the gift is included in the estate for duty purposes.

What happens, it may be asked, if death occurs before the seven years are completed? There is always that possibility however early in life one makes the gift. The best plan for making sure that the Inland Revenue do not take a large slice of the value of the shares in those circumstances is for those persons to whom the shares have been given to take out short-term life assurances on the donor's life. In that way, if death occurs within the seven-year period, the money from the insurance company should more or less cover the amount of duty that will have to be paid.

To make such an arrangement completely watertight is impossible because, when the insurance arrangements are made, it will not be possible to say exactly how much duty may have to be paid in the future in respect of the gift. The value of a person's total assets may well rise before then (putting him in a higher scale so far as the rate of duty is concerned,) or the value of the

shares may increase. And, of course, the actual basis of levying estate duty could be altered. It is, however, worth remembering that some gifts are completely free from estate duty: for instance, gifts to any one person which total no more than £500 are not assessed for estate duty. A past exemption for a present to a son or daughter in consideration of marriage has been reduced to £5,000 in the case of gifts by one party to the marriage, or by a parent to one of the parties, and to £1,000 in any other circumstances. Gifts that are made to charity become free of duty one year after they have been presented.

## LIMELIGHT ON THE LOCUM

### 1. Frantic Searches

BY WYKAM

AFTER nearly fifty years of pharmacy, I sold my premises and tried my hand at occasional locum duties. This gave me a completely different viewpoint on what I can only describe as our amazing profession. Often I felt that the notice hanging in one of the dispensaries in which I assisted summed up my feelings: "You don't have to be mad to work here, but if you are it helps." Some dispensaries have their stocks so haphazardly arranged that an unaided locum has to make frantic searches to find even well known items. Obsolete tinctures and oils clutter the main shelf in front of the dispenser, while modern tablets, in constant demand, are relegated to half-hidden places on side shelves or distant eupboards. One classic case occurred where the insulins were stored in a showcase near the shop front door, thus necessitating walking out of the dispensary, around the counter and easing customers aside to open the case door. Although well over 100 items, mostly tablets, may be rushed out of the dispensary daily, the empty tablet bottles will be located, sizes mixed together, in a heavy drawer under the bench. Should extra large bottles be required—and big tablets and bigger quantities are being freely prescribed—an even heavier drawer has to be heaved open, a bottle selected and a firmly adherent label scraped off before use. If vials or drop bottles are needed, another intensive search may have to be mounted or a trip to the "back" undertaken. Despite the almost universal demand for "N.P.," only a few dispensaries have rectangular tablet labels with a space on the side for the name; many are of the old round shape, suitable only for pill boxes, on which much ingenuity is required to squeeze in the wording. At times the busy dispenser finds his efforts further impeded by shop staff demanding the "pill" or Friar's balsam, oil of cloves or similar remedies to be packed and priced immediately. These stresses overcome, and the medicine dispensed, it may then, along with others, have to be squeezed on to a narrow shelf. The shop girl looking for Mrs. Robinson's tablets needs to turn those over before finding the one required, and sometimes returns with loud complaints because the patient is sure that she ought to have three items, as indeed she should. The fact that there is space for more and wider shelves is no one's business, apparently. In some pharmacies not only the dispensary, but the shop and shopfront also would benefit from a critical inspection and subsequent improvement. That need not involve chromium or other expensive materials. Quite simple and relatively inexpensive treatment would add much to attractiveness and convenience, with consequent rise in morale, comfort and business done.

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OFF BEAT: Did you hear about the waiter taken to hospital with severe stomach pains? They put him on the operating table, but surgeon after surgeon walked by without looking at him. Eventually, the waiter grabbed one by the sleeve. "Can't you help me?" he asked. "Sorry," said the surgeon. "Not my table."—*Sun*.



# LITHIUM SALTS IN PSYCHIATRY

M. R. SALKIND, M.R.C.S., L.R.C.P.

*Dr. Salkind, who is in general practice in East London, is an active member of the General Practitioner Research Group and has conducted several trials relating to psychiatric disorders in the community. He is currently engaged upon a study concerning the diagnosis and treatment of depression.*

**R**ECENT interest in lithium salts dates from 1949 when Cade, an Australian, noted that guinea pigs given lithium carbonate became sleepy and lethargic. He tried the compound on ten manic patients and found that it caused their excitement to disappear.

Lithium's action in acute mania has been confirmed in controlled studies by Schou *et al.*, Gershon and Yuwiler and Maggs. While a number of other treatments are available to suppress the symptoms of manic excitement, lithium is specific, in that it removes the hyperactivity and elation without interfering with normal processes. The patient receiving lithium treatment is alert without lethargy or sedation. It seems clear that lithium is an ideal therapeutic agent for acute and chronic mania. It is also highly effective for hypomanic states whose frequent recurrence leads to deterioration of the patient's social situation. In such patients lithium is superior to drugs that produce only symptomatic improvement and unwanted sedation.

What has caused even more interest in lithium is that it appears to be active as a prophylactic agent against recurrent depression. It has not yet been shown conclusively to be of therapeutic benefit during the depression, but studies have shown that lithium given prophylactically to patients with recurrent depression is able to diminish substantially the depressive attacks. The effect holds true whether the patient has shown only depression in the past or has had alternating phases of mania and depression. Used prophylactically, lithium requires a dosage with few side effects and causes no restriction of normal emotional expression.

## Pharmacology

Lithium ions are almost completely absorbed from the gut, they are not bound to plasma proteins and pass from the blood stream to the tissues eventually being in equilibrium between serum and cells.

The mechanism by which lithium exerts its mood normalising effect is not well understood. Sodium and potassium, to which lithium is chemically related, are of basic importance for most neural activity. Alterations in water and electrolyte balance, and in amine metabolism are known to occur in patients with both mania and depression. It is likely that lithium ions modulate metabolism or transport mechanism in a specific manner.

## Toxicology

Lithium salts have been used in the past in the treatment of gout and as a salt substitute in patients with congestive heart failure. Several tragic deaths occurred from lithium poisoning in the late 1940's and were attributable to its indiscriminate use by patients on low salt diets. This early experience has made physicians extremely wary, but fears of the drug's toxicity are far greater than knowledge of its use and efficacy. There is a large body of knowledge relevant to its use and serum lithium estimations are relatively easily performed. Awareness of these facts makes use of lithium safe.

An extensive study of the excretion and retention of lithium has been made by Trautner *et al.* Lithium is eliminated from the organism primarily through the kidneys, glomerular filtration being followed by active tubular reabsorption. When the sodium concentration is low in the distal tubule, lithium reabsorption is facilitated, and the risk of accumulation occurs. A diet adequate in sodium, plus satisfactory renal function, are prerequisites for lithium therapy.

Side effects that appear on an intake of less than 1,500 mgm. of lithium carbonate a day and with serum levels below 1.5 mEq/litre are not a cause for serious concern. Prolonged serum levels above 2.5 mEq/litre are potentially dangerous even in the absence of toxic symptoms. It is important to realise that the appearance of mild symptoms with lithium therapy does not indicate the onset of intoxication. However, severe and dangerously high levels of lithium can occur in the absence of all symptoms. In the first weeks of treatment, while the patient's condition is being stabilised, serial determinations of blood levels should be carried out. A flame photometric method for the determination of serum lithium which is specific, sensitive and rapid is described by A. Amdisen in the *Scandinavian Journal of Clinical Laboratory Investigation*, 1967, **20**, 104-08.

It is essential that a dose of lithium carbonate sufficient to maintain serum lithium levels above 0.6 mEq/litre be given. Schou is of the opinion that lower levels than that are ineffective. A difficulty with standard lithium carbonate has been the need for frequent dosage throughout the day. Lithium is not metabolised in the body but both absorption and excretion are rapid. Hence it is difficult to avoid serum lithium "peaks," which are known to be associated with uncomfortable side effects.

A delayed-release tablet would seem to offer distinct benefits, as the uptake of lithium over a longer time period would give a smoother serum level. Priadel, controlled-release lithium carbonate (B.P.C. 1949) 400 mgm. tablets are now available and should enable the administration of lithium to be made both safer and less frequent, since a once-daily dose is possible that is claimed to give a stable serum level within the therapeutic range (0.6-1.5 mEq/litre). Control of release rate is achieved by coating the lithium particles with a mixture of palmitostearate esters of glycerol during manufacture. It would appear from preliminary experience in the use of Priadel that control of side effects and also of therapeutic levels is comparatively easy.

When lithium is to be used prophylactically for recurrent depressions, it is sometimes necessary first to treat the depression and then to institute lithium therapy. Anti-depressants, phenothiazines and electroconvulsive therapy have been used concomitantly with lithium.

Interest in the "mood-normalising" properties of lithium salts is widespread and carefully controlled clinical trials currently in progress should provide further valuable facts about their usefulness in mania and depression.

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## A PHARMACIST'S ANTHOLOGY

### GRUB AMONG THE COTTON WOOL

*From "Don't Tell Alfred" by Nancy Mitford*

"BRING her to luncheon one day?" "She's far too busy. She can't do more than un queek dans un drog which is French for lunch in a chemist's shop. Just imagine, scrumptious grub all among the cotton wool—takes thinking of—admit—".



# DEVELOPMENTS IN ASSISTANT TRAINING

## *A commentary on courses now emerging for technicians and others*

E. J. DOWNING B.Pharm., M.P.S., A.C.I.S. (Secretary, Pharmacy Assistants Training Board)

THE Pharmacy Assistants Training Board was established as a result of discussions between the Company Chemists' Association, representatives of the Co-operative Union and of the National Pharmaceutical Union, held before the Industrial Training Act was passed. It was our view that the training of suitable and sufficient supporting staff to work under the pharmacist conducting a retail pharmacy business was absolutely essential to the development of general practice pharmacy and that the prestige of pharmacy was to a very large extent dependent on the success of pharmacists in training their staff to carry out their duties efficiently.

As a matter of priority it was recognised that many pharmacists felt the need for suitably trained technicians to carry out work in the dispensary.

The Pharmacy Assistants Training Board has, since its inception, sought to co-operate with the Pharmaceutical Society and the Guild of Public Pharmacists to produce proposals that would provide for the best possible course to fit a technician to commence work either in general practice or in hospital. It had to be recognised, however, that the requirements of the two parts of the service were not identical, nor was the recruitment pattern. There was, therefore, need to consider carefully the entrance requirements for the course and the content of the syllabus to achieve a compilation containing the essential elements required by both hospital and general practice. We feel we have achieved this compromise in the syllabus we have negotiated with the City and Guilds of London Institute (see *C. & D.*, January 25, p. 85).

Today, because changes in the British educational system have led to the adoption by national examining bodies and colleges of further education of a policy of rationalisation of courses and standardisation of levels of examination, it was appreciated by the Pharmacy Assistants Training Board that to introduce another examination and course which was not part of the accepted national pattern would have been wrong. It was, therefore, decided to approach the City and Guilds of London Institute, an examining body of repute with national coverage and an established pattern of syllabuses covering a wide range of technical subjects at the appropriate level of the course under consideration. The Institute welcomed the approach from the P.A.T.B. and has been most co-operative.

The syllabus has been agreed and is available on request direct from the Institute and, of course, copies are held by the P.A.T.B. and other pharmaceutical organisations.

I believe that the new certificate is a great step forward in that it establishes the position of the pharmacy technician clearly. The syllabus lays the foundation for a balanced course of further education which will fit them for the work they are required to do in the pharmacy of today. I understand that many colleges who have been interested in the training of pharmacy technicians in the past will adopt the new dispensing certificate of the City and Guilds of London Institute and that courses are already being offered at some centres.

As will be seen from the Press report issued by the P.A.T.B. (see p. 124) consideration is actively being given to making available a correspondence course. It is recognised that many pharmacists will not be in a position, because of practical difficulties, to release staff to attend courses at a college of further education. Courses can, of course, only be offered in the larger conurbations.

It will be appreciated that any form of correspondence training offered for a dispensing course must inevitably involve a pharmacist supervisor who must be personally responsible for the practical training of the student and supervision of study carried out. Without the contribution that can only be given by the individual pharmacist, a correspondence course must be inadequate. This special consideration applying to pharmacy technicians does, of course, introduce a new dimension into correspondence training. It is therefore necessary for the Pharmacy Assistants Training Board to break entirely new ground in evolving a course that will satisfy the needs of pharmacy and be a model which may well be adopted by others in the future. Such a project cannot be entered into lightly and cannot be put into effect overnight, but no time is being wasted and I trust that it will be possible to announce a definite programme before too many months have passed.

The P.A.T.B. has not, of course, neglected the training of assistants who do not aspire to be pharmacy technicians and whose contact with the public day by day in pharmacies does so much to establish the public image today. We recognise that the most important factor is the personal "training on the job" given so well by individual pharmacists. We know, however, that many pharmacists have staff who would like to further their education and to broaden those aspects of their knowledge which relate to their work. We are therefore seeking to arrange for suitable provision to be made for the special needs of pharmacy in the courses of education being provided for employees within distribution by the further education authorities. Negotiations are at an advanced stage and we hope that before long it will be possible to announce their successful conclusion.

### SHOP TOPIC 15

## Be A Scientific Shop-keeper

WHEN as a retail chemist you think scientifically about your business, what results can you expect? You will view the shop and its operation objectively and with detachment. You will readily see that you should analyse your own work and not only that of your assistants. To criticise the way a job is done is not to criticise the person doing it. The job is separate from the person. Old methods and mental attitudes can be examined critically. A conscious overall purpose is likely to be developed. A long-term plan and intermediate targets can be shaped. Unreflecting habit is "out."

### Facts Not Impressions

Whether applied to retail shop management or elsewhere, scientific thinking bases action on facts instead of on impressions. If you wonder whether you should stock Boggins' cosmetic products, how do you find the number of inquiries you have had for that brand in the past two months? Do you rely on fallible human memories—your own and your staff's—or do you look in your Wants Book?

You deal in a wide range of pharmaceutical and associated items, but you should also see yourself as a retailer having much in common with retailers in other fields. The



merchandise varies, but the essential elements in the retailing process are always the same. That is why the department store became possible.

This inquiring scientific attitude means, for example, that you learn of new merchandise and new trading methods by design and not by accident. In a department store group in which I worked, it was not unusual for executives to visit the United States to gather ideas and make comparisons. It is unlikely that you could normally do that, yet you may on some occasion spend a holiday abroad.

Would you use the opportunity to watch retailing methods and practices? What would you look at? Would you have a notebook in your pocket? Even if you never leave the United Kingdom, you could probably visit the nearest larger town every three or four weeks to see what's new and what's moving. Such visits would also provide you with breathing spaces to think about your own plans and problems objectively and in a different setting.

Your first need is to see your business in a mirror. Then you will view it objectively, as an outsider would, and as you yourself would look at a similar business in a nearby town. When you cease to be defensive in your attitude to your present methods and practices, you will look more critically at past achievements. Your approach to the

future will be more vigorous and your forward thinking more constructive.

You will be ever ready to revise your stock range, your operating methods, and your display and presentation techniques. Your own thinking and your observation of the bigger people in your own and other trades will inspire such changes.

Yet to extract the truth scientifically from your business, and to view its future steadily, you must also examine closely your business part by part. You may then see much that escaped you when looking at it as a whole.

To study effectively every aspect of your business is not just a task for one quiet half-hour. Each aspect requires at least one half-hour to itself. You yourself must decide the topics requiring your consideration. Just to start your list, you may like to be reminded of the public as your paymaster, of your buying, of the speed at which your merchandise moves, of the profitability of each item, and of your shop layout as a profit-preserver. Other topics deserving of thought include more effective displays, "merchandising" the fast-sellers, checking basic aptitudes of new staff, applying the personal touch to customers, and planning for the continuity of your business.

STANLEY TOWNSEND

## NEW BOOKS

### Dental Practitioners' Formulary 1968

JOINT FORMULARY COMMITTEE, *Pharmaceutical Press*, 17 Bloomsbury Square, London, W.C.1, and *British Medical Association*, Tavistock Square, London, W.C.1. 6½ x 4 in. Pp. 64. Seventh edition. 5s. 6d., plus sixpence for postage and packing.

PUBLICATION of the seventh edition of the Dental Practitioners' Formulary coincides with that of the eighth edition of the British National Formulary. The work comprises two main divisions, the first comprising notes on the use of drugs in dental-surgery practice, and the second a list of preparations. A new feature is a section on adverse reactions to drugs. The metric system is used throughout.

### Powdered Vegetable Drugs

BETTY P. JACKSON, B.PHARM., B.SC.(LOND.), F.P.S., F.L.S. and DEREK W. SNOWDON, B.PHARM.(LOND.), M.P.S. *J. & A. Churchill, Ltd.*, 104 Gloucester Place, London, W.1. 11½ x 8 in. Pp. 203. 65s.

IN order to identify powdered drugs correctly, three aids are particularly useful: a written description of the characters of the powdered drug; good drawings of the fragments of the powdered drug showing all the essential characteristics or microphotographs of the fragments of the powdered drug (in the reviewer's opinion drawings are to be preferred) and powdered authentic drug for comparative purposes. The value of carefully prepared drawings has long been recognised as the most useful visual aid, and in the early part of the century a number of atlases of powdered drugs were available, including Greenish and Collins' "Anatomical Atlas of Vegetable Powders," which contained written descriptions and drawings of 138 powdered drugs. Greenish's "Food and Drugs" was also useful. There were other books, chiefly originating in Europe—for example Berg's Atlas, but all of those older classics are now out of print and rarely obtainable. The use of drugs and medicinal plants has never declined in Eastern Europe in spite of the advent of new medicinal agents, and in order to assist in their identification when powdered, Jakob Deryng published his atlas of 186 drugs and medicinals in 1961. Although the drawings are excellent the notes are in Polish and that has restricted its use in Great Britain. The obvious need for a similar atlas for use in English-speaking countries has now been filled by Betty Jackson and Derek Snowden, pharmacognosists at the School of Pharmacy, Sunderland. The book comprises descriptions and drawings of 100 powdered drugs, some of which not being used in Eastern Europe, were not in Deryng's atlas. The drawings are all excellent, showing all the characteristic features of the drug. All are reproduced at a magnification of 300 from original draw-

ings made with the aid of a camera lucida. It is unlikely that even Dr. T. E. Wallis (the doyen of pharmacognostical microscopists, to whom the book is so charmingly dedicated), could find any faults unless they are extremely minor, for example, the plasmodesmata of the nux-vomica endosperm could perhaps have been indicated more positively. Consideration could have been given to including more dimensions of cell contents, and not only where the measurements are important for distinguishing between related species. It might have been helpful, also, to have been given references to modern anatomical studies where they were applicable. Those comments, however, in no way detract from the value of the book, and indeed the authors are to be congratulated on what is undoubtedly an important and fine piece of work. It is well published and has strong plain covers so that it can withstand wear and tear of laboratory use. The atlas will certainly become commonplace in all English-speaking schools of pharmacy where it will be indispensable. But it will also be of inestimable use to all those people whose job includes, at one time or another, the identification of powdered vegetable drugs.—*E. J. Shellard.*

### Pharmaceutical Advertising: A survey of legislation

Offprint from the *International Digest of Health Legislation*, Geneva, 1968. 1968 revision. Volume 19, No. 3. Pp. 100. 24s. Available also in French.

HUMAN beings have always sought a magic cure for their ills, and a clever advertiser or a charlatan finds it easy to take advantage of human credulity. That is recognised in Sir William Osler's famous statement that "the desire to take medicine is perhaps the greatest feature that distinguishes man from animals." Throughout the world there has been in recent years a protest against extensive self-medication and the excessive consumption of drugs and medicines. This booklet is a compendium of the attempts made, both at national and at international levels, to deal with the problem. No one engaged in any branch of pharmacy will disagree that such legislation is necessary, and in the United Kingdom the Medicines Act, 1968, is the latest in a long list of items of national legislation on pharmaceutical advertising. Among the most recent such efforts at international level are the code of conduct, 1963, of the pharmaceutical industries of countries forming the Pharmaceutical Industries Association (Austria, Denmark, Finland, Norway, Portugal, Sweden, Switzerland and the United Kingdom), and more recently still (1967) the draft directives of the Council of the European Economic Community co-ordinating the member States' legislation governing the advertising of pharmaceutical specialities. The survey, if rather highly priced, may be recommended as a preliminary source of reference.



## GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products appear on p. 132.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, Feb. 8, 1969

### BRUFEN tablets

MANUFACTURER: Boots Pure Drug Co., Ltd., Nottingham.

DESCRIPTION: Sugar-coated tablets, each containing 200 mgm. of ibuprofen. The tablets are coloured light-magenta, each bearing the over-print "Brufen" in black.

INDICATIONS: Rheumatoid arthritis, osteo-arthritis, and allied conditions.

DOSAGE: *Adults*: The dose is one tablet three times a day (i.e. 600 mgm. of ibuprofen daily). To relieve early morning stiffness, the first dose of each day can be taken immediately the patient awakes; subsequent doses should be taken after food.

SIDE EFFECTS: There have been occasional reports of mild dyspepsia and very rarely, a rash has been reported.

PACKS: Containers of 100 and 500 tablets.

SUPPLY RESTRICTIONS: Recommended on prescription only.

FIRST ISSUED: February 1969.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, Feb. 8, 1969

### GENTICIN eye drops

MANUFACTURER: Nicholas Laboratories, Ltd., 225 Bath Road, Slough, Bucks.

DESCRIPTION: Sterile aqueous solution containing gentamicin sulphate equivalent to 0.3 per cent. w/v of gentamicin (3,000 units per mil).

INDICATIONS: All bacterial infections of the eye including corneal ulcers, blepharitis, styes and conjunctivitis; pre- and post-operative cover in eye surgery. Simple infections of the ear.

CONTRAINDICATIONS: Infections of a viral nature, unless bacterial secondary infection is suspected. Rare sensitivity to one of the ingredients.

METHOD OF USE: One to three drops should be instilled every three to four hours.

PRECAUTIONS: Should not be used in infections of a fungal or viral nature.

SHELF LIFE: Two years.

PACK: 10-mil amber glass dropper bottle.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: November 1968.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, Feb. 8, 1969

### GENTISONE HC ear drops

MANUFACTURER: Nicholas Laboratories, Ltd., 225 Bath Road, Slough, Bucks.

DESCRIPTION: Sterile aqueous dispersion of gentamicin sulphate equivalent to 0.3 per cent. w/v gentamicin (3,000 units per mil) and 1 per cent. w/v hydrocortisone acetate.

INDICATIONS: Bacterial ear infections where anti-inflammatory and antibiotic treatment is indicated, including otitis media and prophylaxis in trauma and surgery.

CONTRAINDICATIONS: Fungal infections. True sensitivity to one of the ingredients.

METHOD OF USE: Two to four drops should be instilled three to four times daily. Cotton wool or gauze wicks may be used as required. In infections where a heavy discharge is present, preliminary cleansing is advantageous.

NOTES: Should not be used in infections of a fungal nature.

SHELF LIFE: Two years.

PACK: 10-mil amber glass dropper bottle.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: November 1968.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, Feb. 8, 1969

### SERVICIN sachets 125

MANUFACTURER: Selpharm Laboratories, Ltd., Percival House, Pinner Road, Harrow, Middlesex.

DESCRIPTION: Sachets each containing 125 mgm. of tetracycline and 125 million lyophilised *Lactobacillus casei* resistant to tetracycline.

INDICATIONS: Tetracycline-sensitive infections.

DOSAGE: *Children*: Contents of one sachet. *Adults*: Contents of two sachets. The doses should be dissolved in liquid and taken four times a day.

SHELF LIFE: Eighteen months.

PACK: Box of twenty.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: January 1969.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, Feb. 8, 1969

### ANAPOLON 50 tablets

MANUFACTURER: Syntex Pharmaceuticals, Ltd., St. Ives House, Maidenhead, Berks.

DESCRIPTION: Tablets each containing 50 mgm. of oxymetholone.

INDICATIONS: Treatment of aplastic anaemia.

CONTRAINDICATIONS: Caution should be exercised in the presence of frank liver dysfunction and chronic renal failure.

DOSAGE: Recommended dosage is 4.5 mgm. per kilo body weight daily, in divided doses. An adult should therefore receive 250 to 300 mgm. (five to six tablets) daily, reducing to half the dosage level or less when remission is seen.

SIDE EFFECTS, etc.: The high dosage of oxymetholone employed may lead to mild virilisation in women or prepubertal children. No signs of early bone-maturation have so far been reported in children however. Elevation of serum bilirubin and jaundice may occur, together with other signs of liver disturbance, but normally remit when therapy is discontinued.

PACK: Canister of 100 tablets.

SUPPLY RESTRICTIONS: P.I., S.4B.

FIRST ISSUED: January 1969.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, Feb. 8, 1969

### MEDIHALER-DUO inhaler

MANUFACTURER: Riker Laboratories, Loughborough, Leics.

DESCRIPTION: Pressurised aerosol device containing as a suspension 8 mgm. per mil of isoprenaline hydrochloride (0.16 mgm. per dose) and 12 mgm. per mil of phenylephrine bitartrate (0.24 mgm. per dose).

INDICATIONS: Immediate and prolonged relief of bronchospasm in bronchial asthma, chronic bronchitis and emphysema. May be of particular value in patients with persistent dyspnoea associated with bronchoconstriction, congestion and oedema of the respiratory mucosa.

CONTRAINDICATIONS: Should be used with caution in the presence of cardiac disease, hypertension and hyperthyroidism.

DOSAGE: Each "puff" delivers a measured dose. One to three puffs should be sufficient to provide relief in most cases. It should not be necessary for the patient to take further treatment for at least 30 minutes, or more than eight treatments a day. *Children*: Medihaler-duo should be administered to children only under the supervision of a responsible adult.

NOTES: Correct technique is essential if the patient is to obtain full benefit from each treatment. Probably the most reliable way of ensuring this is for the doctor to show the patient how to use the inhaler by personal demonstration, using a demonstration unit containing no active medicament (such units are available on request).

SIDE EFFECTS: Overdosage may cause dry mouth, palpitations or nervousness.

SHELF LIFE: Two years.

PACK: Aerosol inhaler as a complete unit.

SUPPLY RESTRICTIONS: P.I., S.4B.

FIRST ISSUED: February 1969.

### AMENDMENTS

#### SANDO-K tablets

(Formerly Potassium-Sandoz effervescent tablets)

MANUFACTURER: Sandoz Products, Ltd., Sandoz House, 23 Great Castle Street, London, W.1.

DESCRIPTION: White, flat, round effervescent tablets, each providing 470 mgm. (12mEq.) of potassium and 285 mgm. (8 mEq.) of chloride.

FIRST ISSUED: January 1968 (revised formulation and new name, January 1969).

### C. & D. TABLET AND CAPSULE IDENTIFICATION GUIDE

#### Additions to the Guide

BRUFEN 200mgm. tablets: A7, 14/32, C, R, Cv/Cv, —, N/—.

HEMINEVRIN capsules: D3, 19/32, S, El, —, —, —.

METHISUL tablets: White, 12/32, P, R, F/F, B2, H/—.

PRIADEL tablets: White, 16/32, P, R, F/F, B2, N/H.

SERENACE capsules: B4, G4, 19/32, H, Ob, —, —, —.





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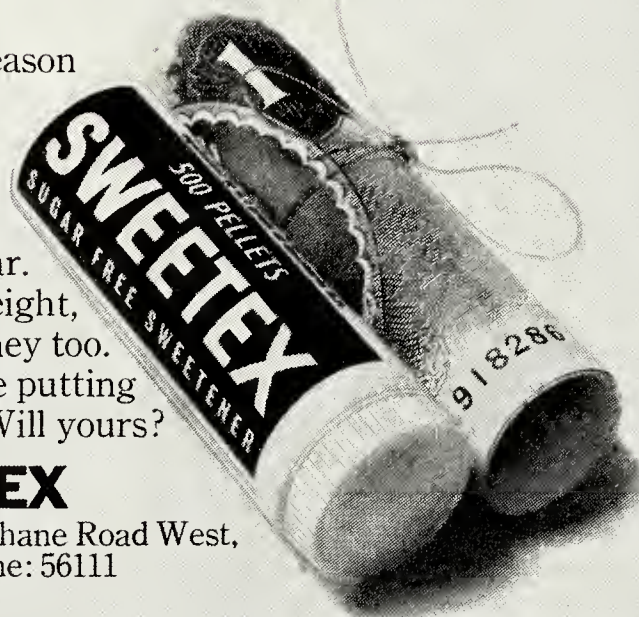
# Grow fat on Sweetex

There's a very good reason why Sweetex sales in the independent chemist have nearly trebled over the past year. Sweetex is the leading artificial sweetener that costs no more to use than sugar.

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Nottingham. Telephone: 56111





## PRIZE-GIVING AT STRATHCLYDE

1968 a "milestone" year

THE 1967-68 session of the School of Pharmaceutical Sciences, University of Strathclyde, represented a further milestone in the history of pharmaceutical education in Glasgow, said PROFESSOR J. B. STENLAKE (dean) when he addressed the School's prize-giving on January 9. The beginning of the session had seen the introduction of revised fourth-year courses for students proceeding to the degree of Bachelor of Science in Pharmacy, and the first students with the University of Strathclyde degree had graduated in July 1968. Of the thirty-seven students graduating, four had gained first-class honours; ten second-class, upper division; sixteen second-class lower division; and three third-class honours, "altogether a very creditable performance," said the dean.

### School of Pharmaceutical Sciences

Second major event of 1968 had been the separation of the department of pharmacy from the school of biological sciences. The new School of Pharmaceutical Sciences consisted of three departments — pharmaceutical chemistry, pharmaceutical technology and pharmacology, each headed by a professor, with pharmacognosy and forensic science under the responsibility of the professor of pharmaceutical chemistry. The title Professor of Pharmacy — first used in the United Kingdom in 1937 in the Royal College of Science and Technology to designate the chair held by the late Professor J. P. Todd — was being retained as an ancillary title for its historic significance, and to designate the professor with special responsibilities for liaison with the Pharmaceutical Society of Great Britain. Professor Stenlake said he would continue as the professor of pharmacy for the duration of his appointment, but the responsibilities of dean, as chairman of the board of study of the School, would, when his term of office expired, pass to other members of the school.

During the year a number of new teaching laboratories had been brought into use for the honours students in all three departments. Some extension of research and post-graduate teaching facilities had also been possible. Six students had completed the requirements for the M.Sc. in forensic science, two for the M.Sc. in pharmaceutical analysis, and five for the Ph.D. degree by research. In the present session about forty students were working for higher degrees. The research work had been greatly strengthened by support received from the pharmaceutical industry, the Research Councils, Trusts and Foundations.

Finally, Professor Stenlake asked Professor W. Ferguson Anderson (David Cargill professor of geriatric medicine, University of Glasgow) to present the prizes (he had earlier delivered the eighth Todd lecture). Prizes were awarded as follows:—

BOOTS PURE DRUG CO., LTD. PRIZES (forensic pharmacy) Elizabeth C. Banfield; (dispensing) Elizabeth C. Kean. JAMES TAYLOR PRIZES (most outstanding student) (First year) Ethel B. Johnson. (Second year, *physiological basis*

*of drug action I and pharmaceutical chemistry*) Jean M. McDonald. (Third year, *physiological basis of drug action II*) Kathleen E. Burns; (*Pharmaceutical chemistry and pharmacognosy*) P. Stromberg. JAMES TAYLOR PRIZE (pharmacognosy in fourth year) E. W. Gold. EVANS MEDICAL, LTD. PRIZE (pharmaceutical technology, third year) K. J. Campbell. KINIMONT PRIZE (most distinguished student in third year) B. M. Hunter. ANTHONY MACMILLAN MEMORIAL MEDAL and JAMES TAYLOR PRIZE (most distinguished student in fourth year) Shona M. E. Uiph. T. & H. SMITH PRIZE (most distinguished student in pharmaceutical chemistry in fourth year) Muriel H. Williamson. PHARMACEUTICAL SOCIETY BRANCH PRIZE AND IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICALS DIVISION, PRIZE (most distinguished student in pharmaceutical technology in fourth year) D. R. Fraser. ORGANON LABORATORIES, LTD., PRIZE (pharmacology in fourth year) Eileen E. Smith. MACARTHY'S, LTD., PRIZE (tra-

vel grant to attend British Pharmaceutical Conference) W. D. C. Wilson. PFIZER, LTD., RESEARCH PRIZE (most outstanding research student) K. J. Armstrong.

## BRANCH EVENTS

### BLACKPOOL

#### President's Address

THE Medicines Act provided a once-in-a-lifetime opportunity for pharmacists to ensure their rightful place in the health of the public, said the president of the Pharmaceutical Society (MR. A. HOWELLS) at a meeting of the Society's Blackpool Branch on January 21. Mr. Howells told the thirty members present that a planned pharmaceutical service, especially in rural areas, would give the pharmacist financial security. He also touched on the subjects of dispensing in the metric system, oral contraceptives and regional organisation.

## SPEEDIER DELIVERIES FOR SHEFFIELD

### Chemists gain from a wholesaler's new storage system

FROM their Cresswell Road, Sheffield, warehouse, Smith & Hill (Chemists), Ltd., supply over 800 retail outlets with both "ethical" and "non-ethical" products. To achieve the fastest and most efficient service on receiving orders they recently installed a Handy Angle storage and order-handling system. It comprises two blocks of storage structures bisected by a central aisle along the length of which runs a double-track conveyor. Orders are fed into the warehouse from the order office by pneumatic tube. Order-picking staff then make up the order, which is placed in bins on the conveyor as different goods are picked from the shelves. When the complete order has been assembled it is sent along the conveyor into the goods-outward department and loaded onto transport ready for dispatch to the customer. "Ethical" products are stored separately on double-faced bays of steel shelving along the left-hand side of the conveyor. The bays rise to maximum workable height and the goods

are stored in compartments tailored to their size, shape and weight. Over 80 per cent. of the shelves are secured by adjuster clips, ensuring that the compartments can be quickly and easily adapted to take extra lines. "Non-ethical" products are stored on the right hand side of the conveyor, again on adjustable steel shelves. Bulky goods are stored on a raised storage platform built over the bays. There, cartons are broken down and their contents either directly incorporated in orders or used to restock shelves. The raised storage platform runs along the whole length of the warehouse. Three staircases enable the warehouse staff to move into any section of the raised area to handle goods without having to walk an excessive distance. Since the new system was installed a throughput of over 300 orders a day has been achieved, with nine fewer staff. A free "Guide to Storage" is available from the information officer, Handy Angle, Hayes, Middlesex.



A view of the improved warehouse.



## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are augmented before wholesale dealers receive the goods into stock.

LONDON, FEBRUARY 5: Apart from a few commodities which continue to be in short supply the markets for CRUDE DRUGS were stagnant during the week. The scarce items were mainly among SPICES. It was not possible to find any Allepy green CARDAMOMS on the spot and CLOVES were still not being quoted for shipment with the result that spot supplies moved up a further sixpence per lb. Jamaican GINGER added a further 40s. cwt. to the previous weeks' high level while PEPPERS were fractionally dearer. Elsewhere ALOES rose by 5s. cwt., PODOPHYLLUM by 10s., but Indian VALERIAN was reduced by 25s. cwt. Brazilian MENTHOL prices eased off sixpence lb. Stocks of CELERY SEED were difficult to locate and the scarcity is expected to continue until the next crops are available.

Among ESSENTIAL OILS forward rates for Ceylon CITRONELLA were up by a further fourpence lb. and Madagascar CLOVE LEAF was dearer by 1s. 3d. lb. The new crop of lemons in Sicily is a plentiful one and growers fear that prices may slump. There were rumours that the old crop OIL may be dumped to keep prices up whilst an alternative suggestion was that the Italian Government might provide a subsidy. BERGAMOT from non-Consortium sources was being quoted at much lower figures than previously.

In PHARMACEUTICAL CHEMICALS the rates for IODIDES and resublimed IODINE were adjusted upwards by 1s. 6d. kilo. ETHER was also firmer by one penny per kilo.

### Pharmaceutical Chemicals

CHLORAL HYDRATE.—1-cwt. 4s. 8d. per lb.

CITRATES.—SODIUM, £255, £250, £241 per 1,000 kilos for 50, 250, 1,000-kilo lots respectively. POTASSIUM, £268, £263, £254. IRON AND AMMONIUM, granular, 9s. 8d., 9s. 7d., 9s. 1d. kilo; scales, 13s.; 12s. 8d., 12s. 5d. kilo.

ETHER, B.P.—Per litre in 2-litre Winchester, 350 litres, 5s. 0½d. ANAESTHETIC, 6s. 8d.

IODIDES.—(Per kilo) POTASSIUM (50 kilos) 26s. 3d.; SODIUM (25 kilos), 34s. 3d.

IODINE.—(Per kilo in 50-kilos); B.P., 28s. 6d. RESUBLIMED, 36s. 9d.—CRUDE, 22s. 11d.

PARACETAMOL.—250-kilos, 21s. 10½d. kilos.

PARAFFINS.—Prices to wholesale distributors per gall. delivered in drums.—Liquid HEAVY B.P., 109-92d. for over 5-drum lots; 5 drums and under 110-92d. LIGHT B.P., 90-92d. and 91-92d. for same quantities. Technical white: LIGHT, 83-42d. and 84-42d.; MEDIUM, 96-22d. and 97-22d. Drums charged and returnable. Soft: WHITE nominally £110-£131 ton and YELLOW, £79-£107 5s. All in non-returnable drums delivered.

PHENACETIN.—B.P. 1,000-kilos, 13s. 11½d. kilo.

PHENAZONE.—1-cwt. lots, 9s. 6d. per lb.

PIPERAZINE.—Less than 50 kilos are: ADIPATE, 19s. 3d. per kilo; CITRATE, 18s. 6d.; HEXAHYDRATE, 13s. 3d.; PHOSPHATE, 20s. 6d.; TARTRATE, 19s. 6d.

SALICYLAMIDE.—250-kilos, 13s. 3¾d. per kilo.

SULPHUR.—(Approximate prices per ton), UBLIMED FLOWERS, B.P., £85; GROUND, £35

to £40; PRECIPITATED, B.P., £150; ROLL, £40 to £45. All ex store.

THEOBROMINE.—ALKALOID from 25s. 11d. per kilo, c.i.f.

UREA.—B.P., £57 ton; technical, £38.

### Crude Drugs

ALOES.—(Per cwt.). Cape primes, 320s. spot; 285s., c.i.f. Curacao, 540s.; 530s., c.i.f.

BALSAMS.—(per lb.). CANADA: 33s. c.i.f. 33s. 6d. to 34s. 6d. spot; COPAIBA: 10s., c.i.f.; 10s. 6d., spot; PERU: 13s. 9d., c.i.f., 14s., spot; TOLU: B.P., 13s.-14s.; genuine as imported, 41s. 6d., c.i.f.

BUCHU.—LEAVES, spot, 21s. lb.; 19s. 6d., c.i.f., for limited supplies.

CALUMBA.—Spot, 140s. cwt.; 130s., c.i.f.

CAMPHOR.—B.P. powder, 42s. kilo; 39s. c.i.f.

CARDAMOMS.—(per lb.) Alleppy greens, 20s. 6d., c.i.f.; prime seed, 33s. 6d., c.i.f.

CASCARA.—Spot, 300s. cwt.; 280s., c.i.f.

CASSIA.—*Lignea*, whole, 500s. cwt., duty paid, nominal; 420s., c.i.f.

CHERRY BARK.—Thin natural, 3s. 2d. lb., spot; 2s. 11d., c.i.f.

CHILLIES.—Zanzibar, 350s. cwt. spot.

CLOVES.—Zanzibar, 13s. lb. spot.

DANDELION.—Root, 500s. cwt. spot; 475s., c.i.f., nominal.

GENTIAN.—Spot, 310s., cwt.; 305s., c.i.f., nominal.

GINGER.—(Per cwt.)—Jamaican No. 3, 500s., spot; Nigerian split, 160s., spot; peeled, 170s.

GUM ACACIA.—Kordofan cleaned sorts, 250s. cwt., spot; 245s., c.i.f.

MACE.—Grenada No. 1, 9s. 6d. lb., spot.

MENTHOL.—(lb.). Chinese, 34s., spot, shipment, 32s., c.i.f. Brazilian, 26s. 6d.; spot, 25s., c.i.f.

PEPPER.—(per lb.) Sarawak white, 2s. 9d. on spot; 2s. 8¾d., c.i.f.; black, 2s. 4½d., spot; 2s. 2¾d., c.i.f. Brazilian, 2s. 5½d., spot.

PODOPHYLLUM.—*Emodi*, 330s. cwt. nominal spot and c.i.f.

SEEDS.—(Per cwt.)—ANISE.—China star, unselected, 260s., duty paid. CARAWAY.—Dutch, 177s. 6d., spot. CELERY.—Indian, 370s., nominal spot; 355s., c.i.f. CORIANDER.—Moroccan, 70s., spot; 66s., c.i.f.; Rumanian split, 64s., spot. CUMIN.—Iranian, 157s. 6d., duty paid; 136s., c.i.f. DILL.—Indian, 160s., spot; Chinese, 125s., duty paid. FENNEL.—Chinese, 115s., duty paid. FENUGREEK.—Moroccan, 72s. 6d., duty paid; 66s., c.i.f. MUSTARD.—English yellow, 70s. to 100s. as to quality.

SENEGA.—Canadian, spot, 29s. 9d. lb.; 29s. 6d., c.i.f. Japanese, 26s. in bond; Jan.-March shipment, 22s. 6d., c.i.f.

SENNA.—(Per lb.) Tinnevely LEAVES spot; Prime No. 1, 2s. 2d.; No. 3, f.a.q., 1s. 4d.; shipment, No. 3, 1s. 2d., c.i.f. PODS: Tinnevely hand-picked, spot, 2s. 2d.; manufacturing, 1s. 9d. Alexandria hand-picked, 5s. to 7s. as to grade; manufacturing forward, 2s. 3d., c.i.f.; spot, 2s. 4d.

SQUILL.—WHITE, 195s., cwt.; 185s., c.i.f.

STYRAX.—Spot, 21s.; 20s. 6d., c.i.f.

TANGERINE.—From 35s. to 45s. lb.

TONQUIN BEANS.—Para. 9s. lb., c.i.f. (10s. spot); Angostura seconds, 7s. landed.

TURMERIC.—Madras finger, spot, 260s. cwt.; new-crop (March-April), 185s., c.i.f.

VALERIAN ROOT.—Indian, 380s. cwt. spot; 310s., c.i.f.; Continental, 400s.; 380s., c.i.f.

WAXES.—(Per cwt.) Bees', Dar-es-Salaam, 850s., c.i.f. CANDELLIA, 550s., spot. CARNAUBA, fatty grey, 335s.; 305s., c.i.f.; prime yellow, 450s.; 415s., c.i.f.

### Essential and Expressed Oils

ALMOND.—Imported, 5s. lb. spot.

AMBER.—Rectified, spot, 1s. 6d. per lb.

ANISE.—Chinese, 15s. 9d. lb.; 15s., c.i.f.

BAY.—45s. lb., spot; 41s., c.i.f.

BERGAMOT.—Spot, from 68s. to 78s. lb.

BIRCH TAR.—Rectified, 15s. lb. on the spot.

BUCHU.—English distilled, 1,100s. lb.

CADE.—Spanish, 2s. 6d. lb., drum lots.

CAJUPUT.—Spot from 10s. to 12s. lb.

CALAMUS.—Spot from 55s. to 65s. per lb.

CAMPHOR, WHITE.—Spot, 8s. kilo, duty paid; 7s., c.i.f.

CANANGA.—Java, 24s. per lb.

CARAWAY.—Spot, 55s. lb.; English, 75s.

CARDAMOM.—Indian, 500s. per lb., English distilled, 700s.

CASCARILLA.—English distilled, 38s. oz.

CASSIA.—Spot from 21s. per lb. for 80-85 per cent., 19s., c.i.f.

CASTOR.—B.P., £200 ton, naked, ex mill.

CEDAR.—LEAF, 60s. lb.; WOOD, African, 7s. 6d.; American, 13s. 6d.

CELERY.—Indian, 135s. per lb.; English, 235s.

CINNAMON.—English-distilled, 52s. per oz.; other B.P. oils from 22s. to 130s. per lb. Ceylon leaf, 18s. 6d.; Seychelles leaf rectified, 22s. 6d.

CITRONELLA.—Ceylon, 7s. per lb. spot, 6s. 11d., c.i.f.; Formosan, 6s., in bond; 6s. 6d., c.i.f.; Chinese, 5s. 1d., in bond; 5s. 1½d., c.i.f.

CLOVE.—(lb.) Madagascar leaf, shipment; 13s. 3d., c.i.f.; spot, 13s. 6d., in bond, English-distilled bud, 66s. (1-cwt. lots).

COD-LIVER.—B.P. in 45-gall. drums at 12s. per gall., plus 30s. deposit on drums. Veterinary is from 9s. 10d. per gall. 25-ton lots. Delivered terms.

CORIANDER.—From 41s. per lb. spot.

CUBEB.—English distilled, 100s. per lb.

CUMIN.—English distilled oil from 120s. per lb. Imported from 100s.

DILL.—Dutch, 60s. lb., spot.

EUCALYPTUS.—Chinese, 80-85 per cent., spot nominal; 10s. 6d., kilo, c.i.f.

FENNEL.—Spanish sweet, 13s. 6d. lb.

GERANIUM.—Bourbon, 97s.-100s. lb.

GINGER.—Imported (per lb.); Indian, 165s. Chinese, 80s., Jamaican, 175s.

GRAPEFRUIT.—Florida, 25s. lb., spot.

JUNIPER BERRY.—English distilled, 270s. lb.; imported, 65s.

LAVANDIN.—French, 30-32%, 27s. lb.

LAVENDER.—French, 40-42%, 55s. lb.

LAVENDER SPIKE.—Spanish, 25s.-27s. lb.

LEMON.—Sicilian, 35s. to 45s. lb., c. and f.

LIME.—West Indian distilled, from 70s. per lb.

NUTMEG.—East Indian, 48s. to 50s. lb.; West Indian, 80s.; English distilled, 100s.

OLIVE.—Spot, £348-£355 per ton ex wharf. Shipment: Spanish, £280-£285 metric ton f.o.b.; Tunisian, £280-£290 c. and f., London.

ORANGE.—Florida sweet, 4s. 6d. per lb.

PALMAROSA.—190s. kilo; 180s., c.i.f.

PATCHOULI.—Spot, 26s. to 28s. per lb. duty paid; shipment, 21s. to 24s. 6d., c.i.f.

PENNYROYAL.—22s. 6d. lb., duty paid.

PIMENTO.—BERRY, imported, 95s.; English distilled, 390s.; LEAF, 24s. per lb., c.i.f.

PINE.—*Pumilionis*, 14s. 6d. to 17s. 6d. per lb.; *sylvestris*, 11s.; *abietis*, 20s. to 23s.

ROSEMARY.—Spanish, 11s. 6d. lb. spot.



## PATENTS

### COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"

January 29, 1969

*Method for preparing condiments containing 5'-nucleotides from yeasts.* Takeda Chemical Industries, Ltd. 1,144,793.

*Needle for introducing an intravenous catheter.* S. Husted-Andersen. 1,144,798.

*Processes utilising fumaronitrile for the control of micro-organisms.* Rohm & Haas Co. 1,144,814.

*Tricyclic derivatives of acetamide.* Boehringer Mannheim, G.m.b.H. 1,144,829.

*Hypodermic needle package.* Jintan Terumo Co., Ltd., 1,144,837.

*Tetracyclic triketones.* Biorex Laboratories, Ltd. 1,144,862.

*Pharmacologically-active guanidine derivatives.* Philips' Gloeilampen - Fabrieken, N.V. 1,144,875.

*Compositions for combating histomoniasis in poultry.* Salisbury Laboratories. 1,144,889.

*Substituted bi-(2-carboxy-chromonyl-oxy) derivatives and preparation and pharmaceutical compositions thereof.* Fisons Pharmaceuticals, Ltd. 1,144,905.

*Bis-phenoxy derivatives.* Fisons Pharmaceuticals, Ltd., 1,144,906.

*Pastille formulations.* Armour Pharmaceutical Co., Ltd., and R. B. Christie. 1,144,915.

*Anthrol derivatives and the preparation thereof.* Soc. Industrielle pour la Fabrication des Antibiotiques. 1,144,935.

*Apparatus for determining the blood group of a specimen.* S.I.P.S. Soc. pour l'Identification Photographique du Groupe Sanguin. 1,144,951.

*Methods and machines for forming tablets.* Upjohn Co. 1,144,952.

*Tricyclic aminomethyl derivatives.* Boehringer Mannheim, G.m.b.H. 1,144,970.

*Electric shaver with detachable head unit.* Sunbeam Corporation. 1,144,983.

*2-Perfluoroalkylbenzimidazoles and their use as insecticides.* Fisons Pest Control, Ltd. 1,145,011.

*Substituted isoidolo [2,1-d] [1,4] benzodiazepin-6-ones.* Sandoz, Ltd. 1,145,055.

*Steroids and the manufacture thereof.* Upjohn Co. 1,145,063.

*Antibacterial compositions.* Sterling Drug, Inc. 1,145,193.

*Substituted phenyl carbamates and their use as insecticides.* Stauffer Chemical Co. 1,145,207.

*Tetrahydroisoquinoline derivatives and a process for the preparation thereof.* Bristol-Myers Co. 1,145,254.

*Tetrahydroisoquinolinium salts.* Bristol-Myers Co. 1,145,255.

*Amidine derivatives, processes for their preparation and compositions incorporating them.* Wellcome Foundation, Ltd. 1,145,278.

*Process for producing 5'-purine nucleotides.* Kyowa Hakko Kogyo Co., Ltd. 1,145,310.

*Process for the preparation of bacterial cultures for vaccines against pertussis and parapertussis.* Ustav Ser a Ockovacich Latek, Oborovy Podnik. 1,145,320.

*17-Oxygenated-2-oxa-estr-5(10)-en-3-ones and a process for their preparation.* G. D. Searle & Co. 1,145,322.

*Steroidal compounds.* G. D. Searle & Co. 1,145,323.

*Unsaturated steroidal lactone.* G. D. Searle & Co. 1,145,324.

*Cyclo-alkenecarboxanilides and herbicidal compositions containing them.* H. Schwartz. 1,145,333.

*3-Cyanomethylene-pregnones and their manufacture and use.* Farbwerke Hoechst, A.G. 1,145,334.

*17a [3' Furyl]-estrogens and process for the preparation thereof.* Ayerst, McKenna & Harrison, Ltd. 1,145,336.

*Fluoranthyl ketones.* Sandoz, Ltd. 1,145,365.

*17a-(Alka-1',3'-diynyl)-steroids.* British Drug Houses, Ltd. 1,145,393.

*Method and apparatus for chromatographic analysis.* Rexall Drug and Chemical Co. 1,145,396.

*Insecticidal baits and process for their production.* Farbenfabriken Bayer, A.G. 1,145,433.

*Nitro-estratrienes.* Soc. Farmaceutici Italia. 1,145,437.

*Benzodiazepine derivatives.* Sandoz, Ltd. 1,145,471-73.

*Penicillin salts and process for their manufacture.* Farbwerke Hoechst, A.G. 1,145,490.

*Surgical dressings for animals.* D. M. Haberkern. 1,145,491.

*Control of fungal disease in trees.* Thomson Research Associates, Ltd. 1,145,496.

*Collapsible tubes.* Betts & Co., Ltd. 1,145,497.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C.2, from March 12.

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

"Trade Marks Journal,"  
January 29, No. 4718

**TECHNIPLASTIN**, 923,521, by Clin-Tech, Ltd., Sidcup, Kent. For all goods for analytical, diagnostic and testing purposes; chemical reagents; etc. (1)

**EUCO** (device), B924,806, by Edekazentrale, G.m.b.H., Hamburg, Germany. For artificial sweetening materials (1)

**LIVING HAIR**, 864,023, by Nu-Tress Laboratories, Inc., North Hollywood, California, U.S.A. For preparations for the hair (3)

**STUDIO ALWAYS YOURS**, 907,363, and **STUDIO PARTY SPARKLE**, by Studio Girl-Hollywood, Ltd., Havant, Hants. For perfumes, non-medicated toilet preparations, dentifrices, depilatory preparations, toilet articles, sachets for use in waving the hair, shampoos, soaps, and essential oils (3)

**MEDESSENCE**, 914,420, by INTEC Proprietary, Ltd., Morden, Surrey. For perfumed soaps; perfumes; non-medicated toilet preparations, cosmetics, preparations for the hair, dentifrices and mouth washes (being toilet articles, not medicated) all containing perfume (3)

**PRINCESS MARCELLA BORGHESE**, B915,726, by Princess Marcella Borghese, Inc., New York, U.S.A. For non-medicated toilet preparations; cosmetics, preparations for the hair; perfumes; soaps and dentifrices (3)

**STUDIO SOAPY TRAIN**, 917,476, by Studio Girl-Hollywood, Ltd., Havant, Hants. For soaps sold in packaging in the form of trains (3)

**TOP LIGHTS**, B919,125, by Clairol, Inc., New York, U.S.A. For cosmetics; non-medicated toilet preparations; perfumes; essential oils; preparations for removing nail colouring preparations; preparations for the hair; toilet soaps; and shampoos for the scalp (3)

**DRIVE**, B920,858, by Gillette Industries, Ltd., Isleworth, Middlesex. For cosmetics, non-medicated toilet preparations, preparations for the hair, eau de Cologne (3)

**DEPILAN**, 923,677, by Lloyd-Hamol, Ltd., London, W.1. For depilatory preparations (3)

**DENTASE**, 925,901, by Co-operative Wholesale Society, Ltd., Manchester, 4. For dentifrices (3)

**VITALIS V7**, 928,057, by Bristol-Myers Co., Ltd., South Ruislip, Middlesex. For toilet preparations for the hair (3)

**SM** (device), B920,043-44, by Savory & Moore, Ltd., London, W.1. For non-medicated toilet preparations, cosmetic preparations, soaps, perfumes, preparations for the hair, toilet articles and nail varnish removing preparations (3) and for pharmaceutical and medicinal preparations and substances; deodorants; and headache remedies (5)

**W** (device), B897,538, by Carter-Wallace, Ltd., Folkestone, Kent. For sedative, analgesic and anti-depressant pharmaceutical preparations in tablet or capsule form, for human use (5)

**NOXACORN** (device), 911,387, by Thomas Marns & Co., Rustington, Sussex. For liquid corn removers, being medicated preparations for human use (5)

**CALMOCOR**, 914,429, by INTEC Proprietary, Ltd., Morden, Surrey. For pharmaceutical preparations and substances, all for

the treatment of conditions of the blood circulation system (5)

**GLAUVENT**, 916,294, by Chimiko-Pharmazetischen Zavod, Sofia, Bulgaria. For pharmaceutical preparations and substances (5)

**KONTROL** (device), B916,945, by Jeyes Group, Ltd., Barking, Essex. For disinfectants; bactericidal, germicidal and insecticidal preparations and substances (5)

**BRONCHOLOLYTIN**, 916,296, by Chimiko-Pharmazetischen Zavod, Sofia, Bulgaria. For pharmaceutical preparations and substances, all for use in the treatment of respiratory ailments (5)

**PALDONA**, 917,330, by R. P. Drugs, Ltd., Leeds, Yorks. For pharmaceutical products (5)

**ESKAFUROX**, 919,398, and **ESKADANTOIN**, 919,401, by Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts. For pharmaceutical, veterinary and sanitary preparations and substances, disinfectants, preparations for killing weeds and destroying vermin (5)

**BABY LOVE**, 920,842, by INTEC Proprietary, Ltd., Morden, Surrey. For pharmaceutical preparations and substances for human use; medicated bath preparations; medicated preparations for the skin; sanitary substances; sanitary articles; disinfectants deodorants, and anti-perspirants; all for babies (5)

**SOB-ARO**, 920,896, by A.R.O. (Enfield), Ltd., Oldtown, Bexhill, Sussex. For pharmaceutical compounds for use as an antidote to alcohol (5)

**HIDRAL**, 912,705, by Lennig Chemicals, Ltd., London, W.C.1. For veterinary preparations and substances and disinfectants (5)

**HIFIRON**, 922,345, by Fisons Pharmaceuticals, Ltd., Loughborough, Leics. For pharmaceutical, veterinary and sanitary substances; infants' and invalids' food; all containing iron or iron compounds; medical and surgical plasters, material prepared for bandaging; material for stopping teeth; and disinfectants (5)

**ALTOFIRON**, 922,346, by Fisons Pharmaceuticals, Ltd., Loughborough, Leics. For pharmaceutical, veterinary and sanitary substances, and infants' and invalids' food; all containing iron; medical and surgical plasters, material prepared for bandaging; material for stopping teeth, dental wax; and disinfectants (5)

**BORT-OVAC**, 922,785, by Hoechst Pharmaceuticals, Ltd., Brentford, Middlesex. For vaccines and sera for veterinary use (5)

**LOMUTAL**, 923,335, by Fisons Pharmaceuticals, Ltd., Loughborough, Leics. For pharmaceutical, veterinary and sanitary substances; infants' and invalids' foods; medical and surgical plasters; material prepared for bandaging; disinfectants (5)

**EDEKA**, 924,715, by Edekazentrale c, G.m.b.H., Hamburg 1, Germany. For salts extracted from spring mineral waters; and dietetic foods (5)

**FRACTOLON**, 927,584, by N.V. Verapharm, Meppel, Netherlands. For medicinal and pharmaceutical preparations for veterinary use (5)

**BASANOR**, 928,238, by Badische Anilin- and Soda-Fabrik, A.G., Ludwigshafen-on-Rhine, Germany. For animal and plant exterminating preparations (5)

**VENTAPAD**, 915,844, by Suluki Fabrics, Ltd., Peterlee, co. Durham. For pads for medical purposes (10)

## NEW COMPANIES

P.C.=Private Company. R.O.=Registered Office.

**A.B.C. CHEMICAL CO., LTD. (P.C.).**—Capital: £900. Subscribers: Roy C. Keen and George A. Corderoy, 7/9, Fetter Lane, E.C.4. Directors: Colin C. Gray, Austin B. Copping, Joseph Sures and James V. Rose, c/o 7, Fetter Lane, London, E.C.4.

**JONATHAN FALLOWFIELD GROUP, LTD. (P.C.).**—Capital: £100. To carry on the business of manufacturers of and dealers in photographic equipment, etc. Subscribers: A. R. Beevor and M. Justice. R.O.: St. Alphege House, Fore Street, London, E.C.2.



## DISPLAYS TO HELP YOU SELL



**CONTEST DISPLAY KIT:** Containing the whole range of Belle Color—eighteen cartons—the compact unit shown features one of the 150 prizes in a contest organised by Roja of Paris, Berkeley Square House, London, W1A 1BX.



**DISPLAY OUTER:** How customers see Phillips' iron tonic (Phillips Yeast Products, Ltd., Park Royal Road, London, N.W.10). Bonus terms apply till February 28.



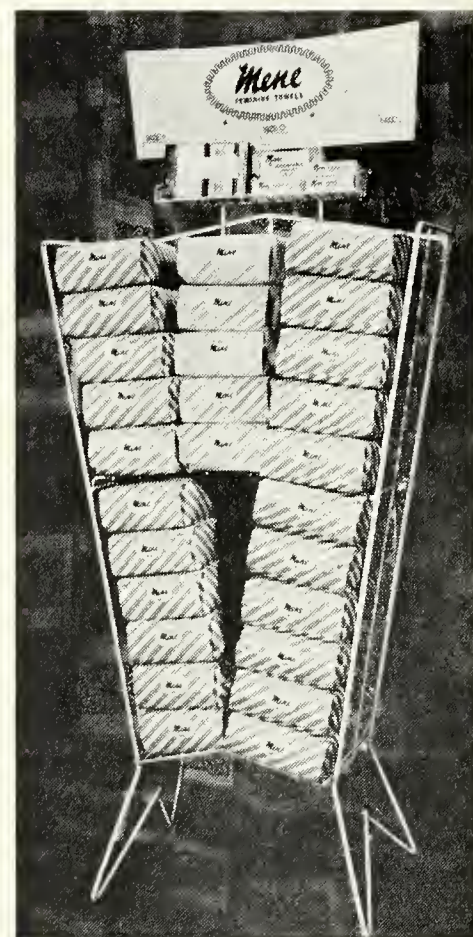
**STAND FOR HAIRBRUSHES:** With a parcel of Royal Sweden ladies' and men's hairbrushes Jackel & Co., Ltd., Kitty Brewster Estate, Blyth, Northumberland, sole distributors, offer the lacquered pine stand shown. It measures 22 in. x 12 in.



**At Left: A NEW "DISPENSER" PACK:** New pack designs for the White Fire series of J. Grossmith & Sons, Ltd., 41 Piccadilly, London, W.1, are echoed in the display outer illustrated, which contains six spray mists (aerosol). Each is individually packaged in high-quality board stamped in gold foil and red — designed to show off the container, which is finished in light blue, grey, red and gilt.



**ALL ON ONE STAND:** New counter/window-display stand by J. E. Atkinson, Ltd., 45 Portman Square, London, W.1, carries the range of Skin Deep products and has a moulded base in a pastel blue, with "Atkinsons" embossed on the front and full colour background.



**FREE STANDING DISPLAY:** Wire display stand now available from Robinson & Sons, Ltd., Wheat Bridge Mills, Chesterfield, Derbys. The stand enables customers to serve themselves. Each holds thirty Mene pads packs (twelve each sizes 1 and 2 and six packs size 0), with space provided for Mene accessories.



**CONSUMER ADVERTISING TIE-UP:** Two new showcards issued by Trufood, Ltd., London Road, Guildford, Surrey, for their baby milk, feature the model used in television "commercials" and Press advertising for the product. The card on the left ties in with programmes shown in the north-east, Yorkshire, Lancashire, Midlands and south, and is available to chemists in those areas. The card on the right is for chemists in other parts of Britain.



# SPECIALS FROM **Gillette** in February/March

## RIGHT GUARD<sup>®</sup> DEODORANT CONSUMER OFFERS

2'6 OFF 128g.

1'6 OFF 85g.

8d OFF SPRAY

The biggest  
Right Guard  
consumer  
offer ever!

## NEW RIGHT GUARD<sup>®</sup> ANTI-PERSPIRANT

TWO SIZES 175g. and 120g.

2' off 120g.

1' off 175g.

RECOMMENDED PRICES 7'11 AND 9'11.

**bud<sup>®</sup>**
**SPECIAL DISCOUNTS  
ON EARLY ORDERS**

INTRODUCING THE NEW ROLL-ON REFILL

**10% OFF**

Merchandiser containing  
6 Roll ons 6 Roll on refills  
6 Aerosols 6 Puffers

**15% OFF**

Merchandiser plus  
2 dozen assorted

**TEAR OUT THIS PAGE AND  
SEND YOUR ORDER  
TO YOUR WHOLESALER NOW**

## HAPPY FACE

FACIAL WASHING CREAM

**15% OFF**

A 2 DOZEN ORDER

NEW DISPLAY MERCHANDISER  
CONTAINING ONE DOZEN IS AVAILABLE

ITEM	QUANTITY
RIGHT GUARD DEODORANT	128g. (2'6 OFF)
	85g. (1'6 OFF)
	SPRAY (8d OFF)
RIGHT GUARD ANTI-PERSPIRANT	175g. (15% OFF)
	120g. (15% OFF)
BUD	Merchandiser
	Roll-on
	Roll-on refill
	Puffer
	Aerosol
HAPPY FACE	Jars
SPRUCE	115cc After Shave (8% OFF)
	58cc After Shave (8% OFF)
	Talc
	Tube Shave Cream
	Aerosol Shave Cream

## SPRUCE

INDIVIDUAL ITEMS NOW AVAILABLE

**8% OFF**

ON 58cc &amp; 115cc AFTER SHAVE

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_



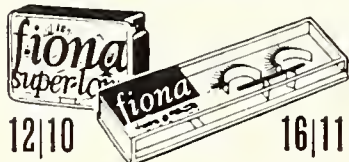


# Super Long

## LASHES FROM

# fiona

You asked for them. so here they are! Super long, long lashes that really show off your beautiful eyes. Fiona, created from lovely Permacurl in four lush permanent colours including Deep Deep Black! They really stay put and the curl never comes out (even if you swim in them). Just touch them on for fabulous dazzling eyes! Ask for Fiona self adhesive de luxe or Fiona standard.



**This is the advertising appearing in the women's press**

Woman  
Womans Own  
Honey  
19  
Petticoat  
Weekend  
Thomsons Weekly News  
Argus Womans Group  
True Story True Romances  
Womans Story Photoplay  
Feminine Five  
My Weekly Red Letter  
Red Star Weekly  
Secrets Family Star

**These are the packs appearing on chemist's counters**



## fiona

eye lashes

and manufactured by  
R. BRANDT & CO (MFG) LTD  
Ribra House, Dalston Gardens  
Stanmore, Middlesex.

and distributed by  
THOS. CHRISTY & CO. LTD.  
Aldershot, Hants.  
Aldershot 24373

# Six of the best



Ref No. 160

Ref No. 161

Ref No. 162



Ref No. 163

Ref No. 164 Ref No. 165

A profit of 60% on cost is offered with Fair Deal Toiletries. During the offer period, ending 28th February, the list price will be reduced to maintain this profit margin making this range the most competitive for quality and value available.

REF. NO.	RECOM'D CONSUMER PRICE	OFFER
160	4/6	7d off
161	3/6	7d off
162	3/11	5d off
163	3/4	5d off
164	6/11	1/- off
165	5/11	5d off

ADDIS **FAIR DEAL** TOILETRIES

THE ADDIS COMPANY • HERTFORD



## PRINT AND PUBLICITY

### PRESS ADVERTISING

ARONDE LABORATORIES, LTD., Sherbourne Avenue, Binstead, Ryde, Isle of Wight: Aronde display. In *Women's Own*.

CUTICURA LABORATORIES, LTD., Clivemont Road, Cordwallis Trading Estate, Maidenhead, Berks: Ayds. In fourteen top women's magazines.

CUXSON GERRARD & CO., LTD., Oldbury, Warley, Wores: Carnation corn caps. In five mass circulation newspapers and ten popular women's magazines from April.

DEVON HAIR AIDS, LTD., Cradock Road, Luton, Beds: Ace toothbrushes. In *The People*, *Sunday Mirror*, *Woman*, *Daily Mirror*, *Sunday Express*, *Reveille*, *Daily Sketch*, *Weekend*, *Sunday Post*, and *Weekly News*.

RENTOKIL LABORATORIES, LTD., Felcourt, East Grinstead, Sussex: Alphakil. In *Daily Express* and *Sunday Express*.

WHITE LABORATORIES, LTD., Penarth Street, London, S.E.15: Cushion grip. In leading national Sunday newspapers and in *Sunday Post* and *Belfast Telegraph*. During most of 1969.

### PUBLICATIONS

#### Booklets and Leaflets

ALBRIGHT & WILSON, LTD., Marchon division, Whitehaven, Cumberland. Information sheets on Nansa HS 80/S, 85/S and BXS; Empicol TL series and Empiphos STP.

ATV NETWORK, LTD., ATV House, 17 Great Cumberland Place, London, W1H 8AA: "ATV Retail Sales Force" (booklet describing a selling and merchandising service for midlands television advertisers).

GLOVER (CHEMICALS), LTD., Wortley Low Mills, Whitehall Road, Leeds, 12: "Amphionics and Ambiterics" (8-p. booklet).

#### Calendars

INTERNATIONAL CHEMICAL CO., LTD., Chenies Street, London, W.C.1: Anadin quarterly planner wall calendar.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of week of insertion.

### Monday, February 10

CHEMICAL SOCIETY, Birmingham University, Edgbaston, Birmingham, at 4.30 p.m. Professor G. W. Kenner (Liverpool University), on "Chemical Studies of Gastrin, the Acid-releasing Hormone."

COLCHESTER, ROMFORD and SOUTHBEND BRANCHES, PHARMACEUTICAL SOCIETY, County hotel, Chelmsford, at 8 p.m. Professor A. H. Beckett on "Comparison of Pharmacy in Britain and Certain Countries Abroad."

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Barnet General Hospital, Wellhouse Lane, Barnet, at 8 p.m. Coffee tasting evening.

MID-GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Railway hotel, Bridgend, at 8 p.m. Dr. J. A. Carman on "Medical Experiences on the High Seas."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, and NOTTINGHAM UNIVERSITY STUDENTS' PHARMACEUTICAL SOCIETY, 64 St. James's Street, Nottingham, at 8 p.m. Dr. R. Gwyn-Evans on "Recent Advances in the Pathogenesis and Treatment of Allergic Disorders."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Boots, Ltd., New George Street, Plymouth, at 7.30 p.m. Film evening.

RETAIL ALLIANCE, Angus hotel, Leathergate, Dundee, at 7.30 p.m. and Adelphi hotel, Ranelagh Place, Liverpool, at 7.30 p.m. Decimalisation meetings.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Postgraduate medical centre, Southampton General Hospital, Tremona Road, Southampton, at 7.30 p.m. Detective Superintendent B. Adams on "Crime Prevention."

WORCESTER CITY AND COUNTY BRANCH, PHARMACEUTICAL SOCIETY. Visit to County police headquarters, Hindlip hall, Worcester, at 7.30 p.m.

### Tuesday, February 11

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Alexander Macgregor lecture theatre, Birmingham Dental Hospital, at 8 p.m. Mr. D. Sparshott (a member of Council) on "The Way Ahead."

DONCASTER BRANCH, PHARMACEUTICAL SOCIETY, Old Bells inn, Campsall, at 8.30 p.m. Annual dinner.

DUDLEY AND STOURBRIDGE BRANCH, PHARMACEUTICAL SOCIETY, Alma hotel, Brierley Hill, at 8 p.m. Mr. V. J. Mitchell on "First Aid."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY and WEST HAM ASSOCIATION OF PHARMACISTS, Medical education centre, Whipps Cross Hospital, London, E.11, at 8 p.m. Discussion evening.

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Rougemont hotel, Exeter, at 7.30 p.m. Consideration of Branch motions. Mr. A. G. M. Madge (a member of Council) will attend.

LIVERPOOL BRANCHES, PHARMACEUTICAL SOCIETY, GUILD OF PUBLIC PHARMACISTS, Exchange hotel, Liverpool, at 8 p.m. Mr. A. D. Thornton-Jones on "B.N.F., 1968."

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly house, Theatre Street, Norwich, at 7.30 p.m. Speaker: Dr. T. Stuttaford.

RETAIL ALLIANCE, Caledonian hotel, Union Terrace, Aberdeen, at 7.30 p.m., Hull Centre hotel, Paragon Street, Hull, at 7.30 p.m. and Grosvenor hotel, Kidmore Road, Caversham. Reading, at 7.15 p.m. Decimalisation meetings.

RHYL BRANCH, PHARMACEUTICAL SOCIETY and LOCAL DIVISION, BRITISH MEDICAL ASSOCIATION, Post-graduate medical centre, Royal Alexandra Hospital, Rhyl, at 8 p.m. Professor A. H. Beckett (head of Chelsea School of Pharmacy) on "The Problem of 'Dope' in Society and Sport and Some Methods for its Control."

ROYAL INSTITUTE OF CHEMISTRY and CHEMICAL SOCIETY, Vane Arms hotel, Stockton-on-Tees, co. Durham, at 8 p.m. Dr. G. P. Warwick (Chester Beatty Research Institute) on "Cancer, its Causes and Treatment."

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Medical centre, Lewisham Hospital, Lewisham High Street, London, S.E.13, at 8 p.m. Dr. P. S. J. Spencer (University of Aston in Birmingham) on "Drugs and the Mind."

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Roker hotel, Sunderland, at 8 p.m. Dinner meeting. Speaker: Nancy Ridley.

UNIVERSITY OF LONDON, Page Street lecture theatre, Westminster Hospital Medical School, London, S.W.1, at 5.15 p.m. Dr. P. W. M. Copeman on "Drug Rashes."

WIGAN AND ST. HELENS BRANCH, PHARMACEUTICAL SOCIETY, Abbey Lakes hotel, Orrell, Wigan, at 8 p.m. Film evening.

WOKING BRANCH, PHARMACEUTICAL SOCIETY, Blue Anchor hotel, High Road, Byfleet, at 8 p.m. Demonstration by Miss Elizabeth Wilkinson (Lenthéric, Ltd.).

### Wednesday, February 12

ASSOCIATION OF MEDICAL ADVISERS IN THE PHARMACEUTICAL INDUSTRY, Royal College of Physicians, St. Andrews Place, London, N.W.1, at 9.15 a.m. Symposium on the principles and practice of clinical trials. Until February 13.

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Medical centre, Boscombe, at 1.15 p.m. Mr. C. P. Broad on "Hard and Soft Osteoarthritis." At Cornelia nurses' hostel, Poole. Mr. V. Criscuolo on "Theory of Management." At Savoy hotel, West Cliff, Bournemouth, at 7.30 p.m. Banquet and ball.

BRITISH SOCIETY FOR THE HISTORY OF PHARMACY, 17 Bloomsbury Square, London, W.C.1, at 6.30 p.m. Miss A. J. O'Hara-May on "Foods as Materia Medica."

DERBY BRANCH, PHARMACEUTICAL SOCIETY, Penine hotel, Derby, at 7.30 p.m. Annual dance and buffet.

ENFIELD CHEMISTS' ASSOCIATION, Highlands General Hospital, Winchmore Hill, London, N.21, at 8 p.m. Tape-recorded lecture on "Going Metric."

EPSOM AND SUTTON BRANCH, NATIONAL PHAR-

MACEUTICAL UNION, New Bull hotel, Leatherhead, at 7 p.m. Annual dinner and dance.

KODAK, LTD., Kodak House, Kingsway, London, W.C.1, exhibitions of colour portraits by Mr. D. Wheeler and of colour transparencies by Mr. K. Shipton (chief photographer, Ford Motor Co. photo unit) and of theatre photographs by Mr. Ken Haward, 9 a.m. to 5 p.m. daily, Mondays to Fridays until March 4.

PRESTON PHARMACISTS' ASSOCIATION Royal Air Forces Association club, Preston, at 7.45 p.m. Mr. N. W. Blacow on "The New Martindale."

RETAIL ALLIANCE, Grand hotel, Balm Green, Sheffield, at 7.30 p.m. and Dragon hotel, Kingsway Circus, Swansea, at 7.30 p.m. Decimalisation meetings.

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. A. W. Patterson (senior lecturer, Department of Pharmacy, Heriot-Watt University) on "Some Historical Collections of Pharmaceutical and Medical Interest in Edinburgh."

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Hedworth hall, Westoe, South Shields, at 8 p.m. Annual dinner and dance.

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY. Meeting cancelled.

WESTERN PHARMACISTS' ASSOCIATION and CHELSEA SCHOOL OF PHARMACY STUDENTS' ASSOCIATION, School of Pharmacy, Chelsea College of Science and Technology, Manresa Road, London, S.W.3, at 7.30 p.m. Mr. S. C. Jolly (assistant director, Department of Pharmaceutical Sciences) on "The B.P.C. 1968."

### Thursday, February 13

CHEMICAL SOCIETY, Large chemistry lecture theatre, Imperial College, London, S.W.7, at 2.15 p.m. Symposium on Structural Chemistry of Plant Products.

DURHAM COUNTY, PHARMACEUTICAL SOCIETY, Three Tuns hotel, Durham, at 8 p.m. Mr. D. J. B. Hindley, on "Hadrian's Wall."

GLASGOW REGIONAL BRANCH, SCOTTISH PHARMACEUTICAL FEDERATION, and GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Strathclyde University, Glasgow, C.1, at 7.45 p.m. Mr. H. Steinman (a member of the Society's Council) on "The Case for a Planned Pharmaceutical Service."

HULL CHEMISTS' ASSOCIATION, Civic hall, Cottingham, at 8 p.m. Buffet supper and dance.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Great Northern hotel, Leeds, at 8 p.m. Professor A. H. Beckett on "Problem of Dope in Society and Sport."

NORTHUMBRIAN BRANCH, PHARMACEUTICAL SOCIETY, Postgraduate medical centre, Newcastle General Hospital, Westgate Road, Newcastle upon Tyne, at 7.45 p.m. Film evening and discussion.

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Quaglino's, Bury Street, London, S.W.1, at 7.30 p.m. Annual dinner and dance.

SWINDON BRANCH, PHARMACEUTICAL SOCIETY, Great Western hotel, Swindon, at 8 p.m. Mr. W. M. Darling (vice-president of the Society) on "Problems That are Facing Us."

THAMES VALLEY PHARMACISTS' ASSOCIATION, Winthrop House, Surbiton, Surrey, at 8 p.m. Mr. N. H. Whittaker, on "Animals by Air."

UNIVERSITY OF LONDON, Edward Lewis Theatre, Middlesex Hospital Medical School, Cleveland Street, London, W.1, at 5.30 p.m. Dr. Marthe Vogt (pharmacology unit, Institute of Animal Physiology, Babraham, Cambridge) on "Release from Brain Tissue of Potential Transmitter Substances and Interaction of Drugs with these Substances."

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Peahen hotel, St. Albans, at 8 p.m. Detective Superintendent T. Jones (head of Hertfordshire C.I.D. Drug Squad) on "Problems of Drug Addiction."

### Friday, February 14

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Royal Institution, Colquitt Street, Liverpool, at 7.45 p.m. Subject: Wine making.







# 1969 is your leap year.

## Atkinsons say so.

---

The demand for Atkinsons products is going ahead by leaps and bounds—and so will *your* profits in 1969. Atkinsons are advertising non-stop in these leading women's magazines—Vogue, Honey, Vanity Fair, Flair, She, 19 and Nova. Be ready for an exciting newcomer to the Atkinsons range too! Stock up for the rush hours now, make this year *your* leap year for profits.

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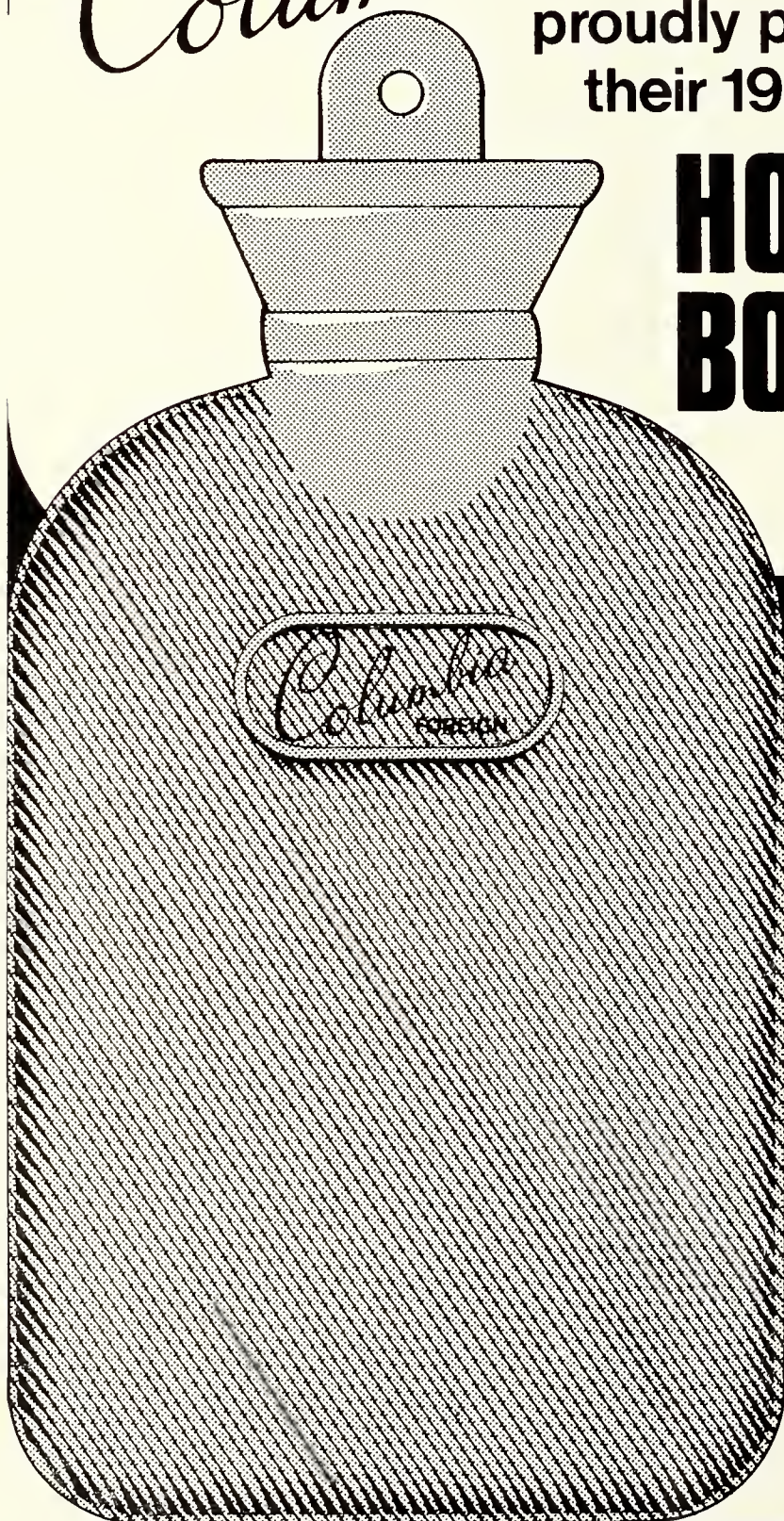
**ATKINSONS**

LINTAS ATK 9-7250-100



*Columbia*

PRODUCTS LIMITED

proudly present  
their 1969 range of**HOT WATER  
BOTTLES**imported from  
Czechoslovakia!

- Superb quality.
- Full replacement guarantee.
- Metal stoppers fitted to each bottle.
- Very competitive prices.  
Where else can you get a double ribbed Hot Water Bottle to retail for only 5/11d?
- Extremely attractive colours.
- Choice of three models.
- **Order NOW and obtain maximum discounts**

**URGENT!**

Post this coupon today

Columbia Products Company Ltd.,  
Sherbourne Avenue, Ryde, Isle of Wight

Without obligation and without delay I would like your representative to call.

Name

Address

C&amp;D/8/2



# 4 good reasons why women will be buying more Pacquins\*



Here they are. 4 consecutive pages in Woman's Own. 4 pages brilliantly conceived, designed and printed to achieve maximum sales impact. Is it any wonder you're going to sell a lot more of Pacquins' products?

After all, one out of three of all women who come into your shop is a Woman's Own reader.

Today women demand the best. They find the best in

# woman's own

the weekly  
that leads the  
way to  
bigger sales



THE KAYMET

*Keep-Warm*  
**CHILD'S FEEDING DISH**  
*(with hot water compartment)*

The Kaymet Company present their IMPROVED Keepwarm Feeding Dish, now being moulded in UNBREAKABLE hygienic plastic. Available in Blue, Primrose, White, Pink. Packed in newly-designed Gift Box.

RETAIL PRICE **10/7** including Purchase Tax  
Wholesale enquiries invited

For further details of this line and our complete range of over 400 nursery accessories apply to:-

**THE KAYMET COMPANY**

Kaymet Works, Sylvan Grove, London S.E.15 Tel. 01-639 6644  
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**Do not  
disappoint  
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speedy relief of headaches, colds,  
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**EX ALL LEADING WHOLESALE HOUSES**

**SMITH & HILL  
SERVICE**  
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**for all ETHICALS**

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Address Box Number Replies to: Box...., THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2. Tel.: 01-353 6565

This service does not extend to the forwarding of samples.

**APPOINTMENTS****WORCESTER ROYAL INFIRMARY****Pharmacist**

required for interesting and varied duties. Salary on scale £1,087-£1,366 according to previous professional experience. Applications stating age, details of training, posts held, names of referees to the Hospital Secretary, Worcester Royal Infirmary, Ronswood Branch, Newtown Road, Worcester, from whom further information may be obtained.

**ROYAL INFIRMARY  
Edinburgh****Pharmacist**

for Group Pharmaceutical Department. Whitley Council rates and conditions. Temporary accommodation may be possible for lady. Write Personnel Officer, giving full details, naming two referees.

**ROYAL FREE HOSPITAL  
Grays Inn Road, W.C.1****Locum Pharmacists**

required commencing February 24, 1969. Salary £28 10s. 6d. per week. Applications to The Group Chief Pharmacist.

**CANTERBURY GROUP  
HOSPITAL MANAGEMENT  
COMMITTEE****Locum Chief Pharmacist (Category 1)**

required. Full or part time. Required immediately for a period of two months. Salary £28.17.6. per week. Accommodation available for female candidate (single). Modern department, pleasant working conditions, providing all-round experience, including quality control. New Sterile products unit. Applications to and full information from the Group Pharmacist, Kent and Canterbury Hospital, Canterbury (Canterbury 66877).

**KENT AND CANTERBURY  
HOSPITAL****Canterbury, Kent****Pharmacist**

Applications are invited for the post of Pharmacist in the Group Pharmacy at the above General Hospital (Category V). Modern department, pleasant working conditions, providing all-round experience, including quality control. New Sterile products unit. Full-time or permanent part-time basis considered. Salary £1,087 to £1,366 per annum, depending on experience. Accommodation available for female candidate (single). Applications, stating age, experience and names of two referees, to be sent to the GROUP PHARMACIST at the Hospital (telephone Canterbury 66877).

**ROYAL FREE HOSPITAL  
Grays Inn Road, W.C.1****Pharmacy Technician I**

required in the Manufacturing Section. Duties include preparation and pre-packaging of liquid preparations, ointments etc., with the possibility of spending some time on Sterile Products. Salary £560-£820 per annum plus £90 London Weighting. 38-hour week with alternate Saturday mornings free.

Apply, naming two referees, to the Group Chief Pharmacist.

**BOARD OF MANAGEMENT FOR GLASGOW WESTERN  
AND GARTNAVEL HOSPITALS  
KILLEARN HOSPITAL, KILLEARN, BY GLASGOW.**

Applications are invited for the post of

**Chief Pharmacist, Category III**

at the above hospital. (Salary Scale £1,404 - £1,865) Whiteley Council Conditions of Service. Housing arrangements can be made if required.

Applications with the names and addresses of two referees to Group Medical Superintendent, Western Infirmary, Glasgow, W.I.

**CANTERBURY GROUP  
HOSPITAL MANAGEMENT  
COMMITTEE****Chief Pharmacist (Category 1)**

Applications are invited for the post of Chief Pharmacist, (Category 1). Consideration will be given to newly qualified applicants. Duties will include in addition to responsibility for the service to one hospital in the Group, certain specific responsibilities in respect of Quality Control procedures and in the new Sterile Products Unit at the Group Pharmacy, Kent and Canterbury Hospital. Full details of this post may be obtained from the Group Pharmacist, Kent and Canterbury Hospital, Canterbury (telephone Canterbury 66877). Salary £1,196 to £1,530 per annum depending on experience. Accommodation available for female candidate (single). Applications, stating age, qualifications, experience and the names of two referees to be sent to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury, Kent.

**GLENSIDE HOSPITAL,  
STAPLETON, BRISTOL****PHARMACY  
TECHNICIAN I or II**

National salary scale and conditions.

Alternate Saturdays off.

Board residence if required.

Applications giving names and addresses of two referees should be sent to the secretary.

**BARNET GENERAL HOSPITAL  
Wellhouse Lane, Barnet, Herts.****Pharmacy Technician I**

required for duties in the Group Pharmacy at Barnet General Hospital. Apply Group Pharmacist.

**ISLE OF THANET  
DISTRICT HOSPITAL  
Margate****Senior Pharmacist**

(full or part-time or locum) to assist Chief Pharmacist at the Margate Wing, which is a Category III Hospital. Unfurnished house or furnished flat could be made available. Applications, with full details and names of two referees, to Hospital Secretary, from whom further information is obtainable.

Please mention C & D when  
replying to advertisements

**ILFORD & DISTRICT H.M.C.****Locum Pharmacist**

any weeks July/August/September 1969. Apply to Group Secretary, King George Hospital, Eastern Avenue, Newbury Park, Ilford, Essex.

**SITUATIONS VACANT  
RETAIL****PHARMACIST****Superintendent Pharmacist**

urgently required to take charge of a busy dispensing department.

Good supporting staff.

Modern shop.

Good references required.

S.W. Lancs. area.

Box C. 1354

**PHARMACIST**

Manager required for Erdington Branch — Good basic salary and emoluments, easily run shop.

Application to Superintendent Chemist, The Birmingham Co-operative Chemists Ltd., 422-4 Coventry Road, Birmingham 10.

**SITUATIONS WANTED**

**TABLET MANAGER** seeks change. 25 years experience in Tableting, Coating, Development, Formulation and Planning in Ethical, Proprietary and Contract Work under strict Quality Control and Modern Business techniques. Box C 1358.

**GENTLEMAN**, 48 years of age, 30 years' experience in retail and wholesale pharmacy and marketing of ethical products requires post. Fully conversant with marketing methods. Ex-director of company. Box C 1356.



## SITUATIONS VACANT INDUSTRY

**THE BAYER PRODUCTS COMPANY LTD., DUBLIN**  
will shortly appoint a

## Production Manager

who will be based in Dublin. After a period of training he will assume executive responsibility for the production of pharmaceutical products, and for improving the already high standards of manufacturing practice.

The successful candidate, preferably aged 25/35, will be a qualified pharmacist with at least two years' experience in production or quality control, desirably in a modern pharmaceutical plant.

He should also have had managerial experience, or be able to demonstrate by his record that he has managerial abilities.

An attractive initial salary will be negotiated according to experience and qualifications. There are excellent company benefits, which will be outlined at a preliminary interview.

The Bayer Products Company Ltd., Dublin, is part of the Sterling Winthrop Group Limited, one of the most successful multi-national innovating companies in the pharmaceutical industry.

Applications will be treated in the strictest confidence and should be addressed (quoting reference CD 219) to:

**T. P. BYRNE,**  
Specialist Selection Service,  
15 Upper Fitzwilliam Street, Dublin 2.  
Closing Date: February 15th, 1969.

### SITUATIONS VACANT OVERSEAS

## MARKETING EXECUTIVE Thailand

A well-known British Company has a vacancy for an experienced Marketing Executive to assume control of their Pharmaceutical and Fine Chemicals Department.

The successful applicant will be responsible for all aspects of marketing these products.

This is a tax free appointment and the salary envisaged is commensurate with the responsibilities involved. Fringe benefits include Children's Educational Allowances, free accommodation and Transport, regular home leave on full salary and full medical benefits. There is a Provident Fund and non-contributory Pension Scheme.

*Applicants should comply with the following basic requirements:—*

- (1) Age 28-34.
- (2) Experience in marketing Pharmaceutical and Fine Chemical Products.
- (3) Previous experience of Far East an advantage.

Applications in confidence with resumé of previous experience and details of age, education, marital status to **Box No. C-1357**.

### BUSINESS OPPORTUNITIES

**BUYING GROUP** wishes to purchase assorted ethicals. £250,000 per annum in monthly lots. Strictest possible confidence observed. S.E./S.W. England. Box C. 1344.

**NOW IT CAN BE DONE.** The latest and best in shampoos and hand creams in your own private brand. Terrific profits and top quality. For details: Mr. F. Harrington, Sales Director, A. D. Hauser, 24-26, Westover Road, Bournemouth. Tel. 24486.

### Business Opportunities—continued.

**SPECIALITY DETAILING** to the medical profession. Save money on expenses and S.E.T. by having your Ethicals detailed by experienced staff. Full coverage of Chemists and stocks placed to meet demand. Hospital calls a full speciality. Details and quotation. Box C 1355.

### TENDERS

#### LANCASHIRE COUNTY COUNCIL

Tenders are invited for the supply of Rose Hip Syrup for resale at Child Welfare Centres during the period 1st April, 1969, to 31st March, 1970.

Forms of tender are obtainable from the County Medical Officer of Health, Room 128, East Cliff County Offices, Preston, Lancs. PR1 3JN.

The closing date for receipt of tenders is Monday, 3rd March, 1969.

#### ETON RURAL DISTRICT COUNCIL

#### Two Shops Available Leasehold at Bells Hill, Stoke Poges

The Council is developing an estate which includes 12 shops in two blocks. One block of five shops is completed and the trades operating of Grocer; Newsagent and Tobacconist; Butcher; Co-operative Stores and Launderette and Dry Cleaners. Remaining block of 7 shops expected to be completed April 1969, and 5 are let to trades of Ladies Hairdresser; Hardware and Electrical; Fruiterer and Greengrocer; Drapery and Haberdashery and a Bank.

Two shops only available on 21-year lease; self-contained, shop area of about 40 ft. x 19 ft. plus toilet facilities, yard and garage. Flat above shop available on separate tenancy.

Tenders are invited from trades other than those quoted above, and particularly from a Chemist.

Drawings, Statement of Particulars and application forms from the undersigned to whom tenders must be submitted not later than the 28th February, 1969.

Council Offices,  
Windsor Road,  
Slough, Bucks.

D. P. Harrison,  
Clerk.

### MISCELLANEOUS

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Ashton-under-Lyne Lancs.

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## BUSINESSES FOR SALE

**£900 S.A.V.** Chemist Sundries/toilet requisites business. Smart shop main shopping centre, nr. Richmond. Rent £275 p.a. details 892 1266.

**DRUG STORE.** Bournemouth. Compact shop on corner site in very busy shopping street near large department store. Takings increased substantially since refitting early 1968 and stated to have been approx. £10,000 for 6 months to September 30, 1968. Premises held on 14 year lease expiring December 1970 at £200 p.m. Price: Lease £600. F. & F. £600 s.a.v. (about £1,200 which can be paid for over 12 months if required.) Orridge & Co., 517, Christchurch Road, Boscombe, Bournemouth.

## SHOPS TO LET

**AMBITIOUS PHARMACIST** required to take up tenancy of only remaining vacant unit which is reserved for a Chemist in new shopping arcade at Bromham, Bedford. Certain lines reserved exclusively for the chemist. No other similar shop in the area. Financial assistance available if required. Apply Cole, Avoca House, Molivers Lane, Bromham, Bedford. Tel. Oakley 2737.

## FOR SALE

**FASCIA LETTERS.** Bold, coloured, three dimensional effect, weatherproof, easy-fix 12 in., 9 in., 6 in. and 4 in. Quick delivery. Thirsk Equipment Co., Ltd., 741 Garratt Lane, Tooting, London, S.W.17 01-946 2291.

**SAVE UP TO 30% on all consumer durable goods** — electrical goods, furniture, radios, etc. Famous Manufacturers deliver direct to you. Write for free 32-page Discount Shopping Guide to Discount Shopping Centres, Western House, 65/67 Western Road, Hove, Sussex. Tel.: Brighton 778922/3.

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NURSES and  
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Co., Ltd.**

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Tel.: WIllesden 6698/9**

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## SHOPFITTERS

**INTERPLAN.** Modernise with modular interchangeable fitting to increase your sales. Complete services including shop fronts if required. Free planning and brochures available. Olney Bros. Ltd., Northbridge Road, Berkhamsted, Herts. Tel. 5417/8/9.

## Situations Vacant Industry—Continued.

## PHARMACIST

We have an interesting vacancy for a young Pharmacist. Initially, he will be required to assist and take control of a section of the Works and then obtain broad experience by moving from section to section. He will be expected to contribute to staff training through lecturing and can anticipate an exciting and progressive career in a company which has steady growth prospects.

We are 2 miles from Crewe in pleasant rural surroundings, within easy reach of modern housing development.

Applications should be made in writing to:



The Personnel Manager, Ref. RP/A,  
**CALMIC LIMITED,**  
Crewe Hall, Crewe,  
Cheshire.

(one of the Wellcome Group of Companies)

## Miscellaneous—(continued)

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**WANTED.** We want to purchase—Old drug drawers, display cabinets, bottles, carboys, pill rollers, plaster machines, shop signs, exterior and interior. In fact anything old. We dismantle and collect 100 miles radius of London — 121, Consort Road, Peckham, London, S.E.15. 01-639 6362.

**WE WILL PURCHASE** for cash a complete stock, a redundant line, including finished or partly finished goods, packaging, raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone: Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Park 3137-8. C 140

**WANTED:** Surplus cameras, enlargers, cine-cameras and projectors, photographic equipment of every description. Surplus and outdated film and paper, large or small quantities. Phone, write or call. Spears (Dept. CD), back Watling Street, Shudehill, Manchester, 4. Telephone BLACKfriars 9432 (5 lines), Bankers, Midland Bank, Ltd. C 613

**WE PURCHASE** surplus and redundant stocks of every description especially packing material. Spot cash settlement. Reliance Trading Company, 23-25 Charles Lane, St. John's Wood, London, N.W.8. Tel.: JUNiper 0701. C 599

**WANTED,** tablet machines, both single punch and rotary and ancillary equipment. Box C 1359.

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## COHAR DISTRIBUTORS LTD.

(Dept 28), 16 Jacob's Well Mews, George Street, London, W.1. (Mail Only) and 47 Oswald Street, Glasgow, C.1 or phone Glasgow 041-221 2771, London 01-242 2345 Birmingham MIDland 021-643 8333, Manchester 061-236 2321, Cardiff 40404, Liverpool 051-709 3232, Leeds 3-4433, Newcastle 61-0666, Sheffield 2-6622. C 600

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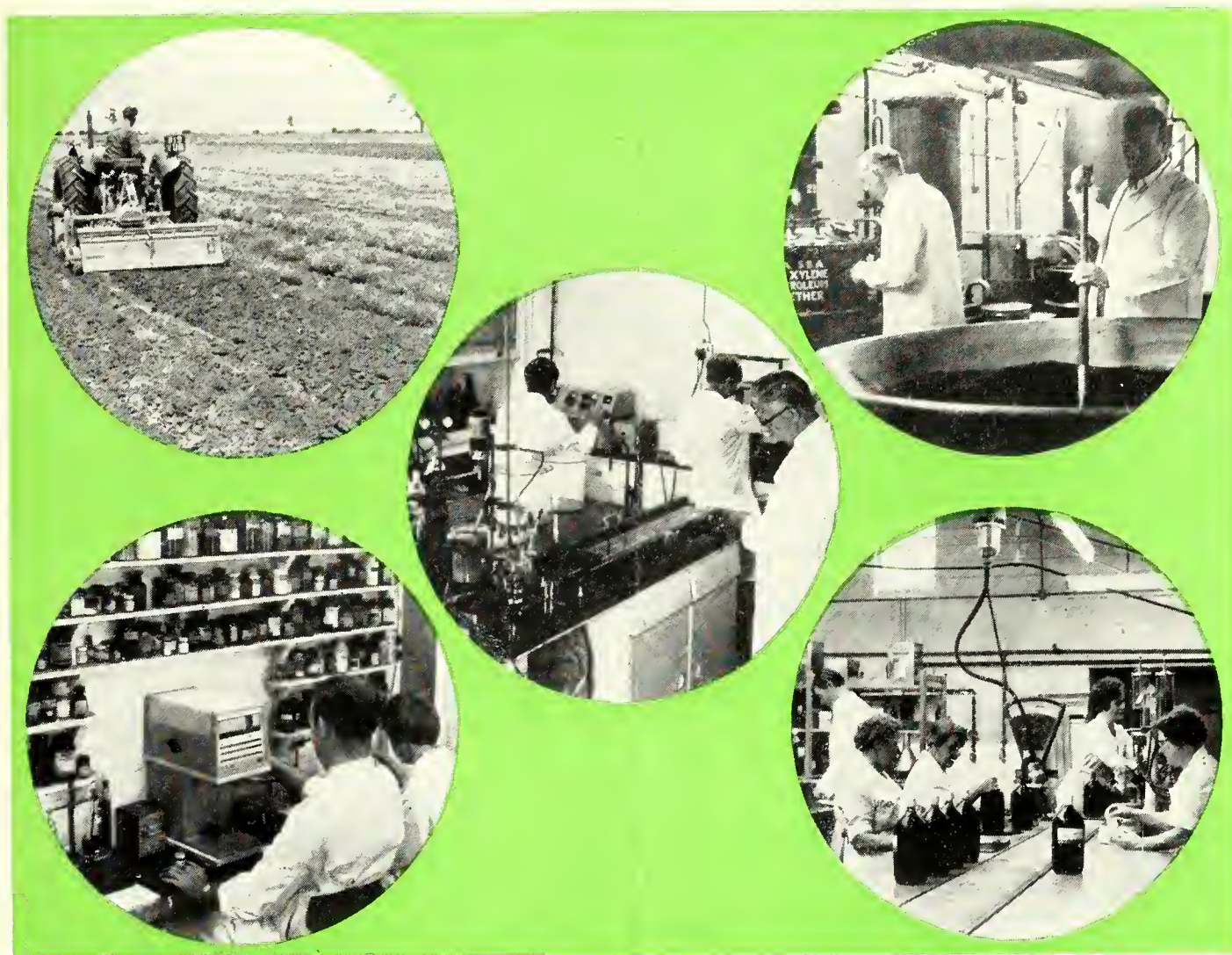
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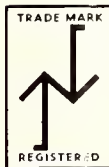
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